

Holmes Rolston, III, Paper Materials in CSU Archives, through 2019

The oldest are first. There are also some additional recognition events and records. Also there is some critical notice.

In the paper archives, materials are mostly placed in the year in which the research was conducted and the article written. Publication is often in the following or later years.

Materials through 2016 have been placed in the Paper Archives, as of April 2020.

Onward materials, though listed here, to be placed in archives later.

Books in English are in general circulation in the CSU Library, as also are books in the Roman alphabet (e.g. French, German).

Rolston translations in books not in the Roman alphabet (e.g. Chinese, Russian) are placed in the archives.

The published materials, both articles and book, can usually be found in the Colorado State University Library. They can also be found in the Rolston Library housed in the Eddy Library, Department of Philosophy, Room 323D, Eddy Hall, CSU.

Rolston drafts and finished texts are on CD archives, ***Rolston Documents***, in various wordprocessing formats over the years. Earlier these texts are often in WordPerfect 4.2, WordPefect 5.1, which should open in any later WordPerfect format, from WordPerfect 8 onwards. Also in Microsoft Word (MS Word), this will also open WordPerfect 8 texts.

Many texts that preceded wordprocessing have later been optically scanned. Sometimes texts are in Rich Text Format (.rtf), depending somewhat on publisher

specifications. All these text files are searchable for filenames and word strings in Windows: Search for Files or Folders, containing text. Later texts may also include proofs, revised proofs, etc., usually in Adobe pdf format.

Reports from refereeing of books, articles, funding proposals, external thesis examinations, destroyed, since many of these were confidential (about 300 such files). About five dozen tenure and promotion evaluations discarded.

1950-1969

1950-1953. Papers from Davidson College, undergraduate years.

1953. "Chapel, Midwinters, The Florida Keys, and Everglades," ***The Davidson College Bulletin***, 52 (May, 1953):12-13. Field trip to Florida Keys and Everglades.

1955. Community Ambassador, Holland

1956

1956. Union Theological Seminary in Virginia, Richmond.

1956. Hanover Presbytery, Virginia, Certificate of Ordination.

1958

1958. "Richmonder Describes Big Russian Parade," ***Richmond News Leader*** November 24, 1958, p. 5. November 7 (1958) Moscow parade in Red Square, celebrating the October Revolution in 1917.

1959

1959. Review: F. W. Beare, ***The Epistle to the Philippians***, in ***Christian Century*** 76:1442-3, December 9, 1959.

1959. "Religion in Russia" in ***Presbyterian Survey*** 49:29-31, June, 1959. An observer's report of religious life inside the Soviet Union.

1959. "Student Reports on Treatment of American Issue in Russia" in ***Presbyterian Outlook*** 141(1):11, January 5, 1959. American race relations as portrayed in Soviet education, pursuant to tour of Russian schools.

1960

1960. "Why Scotland?" in ***Presbyterian Survey*** 50:26-27, 44, August, 1960. Article on Scottish theological education.

1961

1961. "The Names of Jesus" in ***Day by Day*** 23(4):74-87, October-December, 1961. Twelve short studies in Presbyterian Church, U.S. devotional materials.

1964

1964. "Appalachia: Mountains of Poverty" in ***Christianity Today*** 8:601-2, March 27, 1964. Special report in analysis of religious situation in Southern Appalachians, prepared at request of editors of ***Christianity Today***.

1964. "September Hawking on Clinch Mountain" ***Virginia Wildlife*** 25(9):9, 21-22, September, 1964. Migration of birds of prey in the Southern Appalachians.

1964. "What Is the Bible?" in **Day by Day** 26(4):60-68, October-December, 1964. Nine studies.

1966

1966. **The Cosmic Christ** (John Knox Press, 1966), paperback book for senior youth in Covenant Life Curriculum, authorized curriculum of the following denominations: Presbyterian Church in the United States, Reformed Church in America, Moravian Church in America, Cumberland Presbyterian Church, and Associate Reformed Presbyterian Church.

1967

1967. "Themes from Colossians" in **Day by Day** 29(1):69-81, January-March, 1967. Twelve studies, *ibid*.

1967. "Nature's Mystery, Majesty in Washington County (Virginia)," **Bristol Herald Courier**, August 6, 1967. Later appeared as "Mystery and Majesty in Washington County," **Virginia Wildlife** 29(11): 6-7, 22-24, November, 1968. Reprinted as "Farewell, Washington County, in **Philosophy Gone Wild** (Buffalo, NY: Prometheus Books, 1986, 1989), pp. 241-247.

1967. "Bristolian Shoots Rapids on America's Wildest River," **Bristol Herald Courier**, August 27, 1977, pp. 5A. Report of river run, 300 miles, on Colorado River through the Grand Canyon, July 27-August 5, 1967.

1968

1968. "Mystery and Majesty in Washington County," **Virginia Wildlife** 29(11): 6-7, 22-24, November, 1968. A naturalist's account of fauna, flora, and natural history. Reprinted as "Farewell, Washington County," **Philosophy Gone Wild** (Buffalo, NY: Prometheus Books, 1986, 1989), pp. 241-247.

1968. **Writings of Faith and Encouragement** (Board of Christian Education, United Presbyterian Church, 1968), quarterly for senior youth, and additional accompanying teacher's guide, in curriculum authorized in following denominations: United Presbyterian Church, U.S.A., Cumberland Presbyterian church, Reformed Church in America, and Presbyterian Church, U.S.

1968. Cooperative College Registry

1970-1979

1970

1970. "Responsible Man in Reformed Theology," *The Scottish Journal of Theology* (Oxford University Press) 23(no. 2, May, 1970):129-159.

1971

1971. "Hewn and Cleft from this Rock: Meditation at the Precambrian Contact," *Main Currents in Modern Thought* 27(1971):79-83. Reprinted as "Meditation at the Precambrian Contact," in *Philosophy Gone Wild*, pp. 233-240.

1971. "On the Virtues of Men," *CSU Collegian*, February 26, 1971. Response to "Memo to an Unlucky Dean," in re dismissal of Bob Baker, Department of History.

1972

1972. *John Calvin versus the Westminster Confession* (Richmond, Virginia: John Knox Press, 1972). 124 pages. Book in Reformation Theology. See *Presbyterian Outlook*, March 10, 1972, special issue in synopsis and review of this work.

1972. Searching Look at a System of Doctrine. ***Presbyterian Outlook*** 154(no. 12, March 20, 1972):1-2, 4-6.

1973

1973. "Community: Ecological and Ecumenical" in ***The Iliff Review*** 30(1973):3-14 (Iliff Theological Seminary, Denver). An invited article in this issue. Analysis of the inter-relations of theology and ecology.

1973. "Philosophical Aspects of the Environmental Crisis," in Phillip O. Foss , ed., ***Environment and Colorado: A Handbook***, (Fort Collins Colorado: Environmental Resources Center, Colorado State University, 1973), pages 41-46. Reprinted as "Philosophical Aspects of the Environment" in ***Philosophy Gone Wild***, pp. 53-60.

1974-1975

1974-1975. July 1974-July 1975. Harvard University, Center for the Study of World Religions, and Marblehead, Mass. Sabbatical year. Boston area trips and museums. Records kept mostly by Jane Rolston.

1975

1975. "Is There an Ecological Ethic?" ***Ethics: An International Journal of Social and Political Philosophy*** 85(1975):93-109. Reprinted in ***Philosophy Gone Wild***, pp. 12-29.

Reprinted in Donald Scherer and Thomas W. Attig, eds., ***Ethics and the Environment*** (Englewood Cliffs, NJ: Prentice Hall, 1983).

Reprinted in Robin Attfield, ed., ***The Ethics of the Environment*** (Farnham, Surrey, UK: Ashgate, 2008), pp. 13-29.

Reprinted in Martin Wachs, ed., ***Ethics in Planning*** (New Brunswick, NJ: Center for Urban Policy Research, Rutgers University, 1985).

Reprinted and translated into Chinese in Qiu Renzong, editor, ***Guowai Ziranhexue Zhexuewenji 1990 (International Philosophical Problems in Natural Science 1990)***, Chinese Academy of Social Sciences, Institute of Philosophy. Beijing: Social Science Press, 1991. Translated by Ye Ping, Northeast Forestry University, Harbin.

Reprinted and translated into Russian in L. I. Vasilenko and V. E. Ermolaeva (Institute of Philosophy, Russian Academy of Sciences) eds., ***Globalniye Problemy i Obshchechelovecheskiye Tsennosti (Global Problems and Human Values)*** (Moscow: Progress Publishers, 1990), pp. 258-288.

Reprinted and translated into Hungarian in László Molnár, ed., ***Környezeti etika (Environmental Ethics)*** (Budapest: Technical University of Budapest, 1996).

Reprinted and translated into Italian in Mariachiara Tallacchini, ed., ***Etiche della terra: Antologia di filosofia dell' ambiente*** (Milan: Vita e Pensiero, 1998), pages 151-171.

Reprinted in J. Baird Callicott and Clare Palmer, eds., ***Environmental Philosophy: Critical Concepts in the Environment*** (London: Routledge, 2005), vol. 1, pp. 54-71.

1975. "Lake Solitude: The Individual in Wildness," **Main Currents in Modern Thought** 31(1975):121-126. Reprinted in **Philosophy Gone Wild**, pp. 223-232. Online at: <http://hdl.handle.net/10217/37105>.

"Lake Solitude: The Individual in Wildness," 索利图德湖：荒野中的个人，reprinted, translated into Chinese by Liu Er 刘耳. In *Huanjing yu Shehui* 环境与社会 (*Environment and Society*) 2 (no. 4, December 1999), pages 54-61. There is a copy of the original issue, filed in Rolston paper archives in 1999, but no copy in the Rolston Library in the Eddy Library. Online at: <https://hdl.handle.net/10217/196984>

1975. "Schlick's Responsible Man," **Philosophy and Phenomenological Research** 36(1975):261-267. A criticism of the concept of responsibility in the work of Moritz Schlick.

1975. **Reason, Faith, and Environment**. Anthology, used in class several years, tried repeatedly to get it published, and failed.

1975. "Synthetic a Priori Truth from Crystallography," failed to get it published.

1975. **Great Old Testament Themes**, Uniform Lesson Cooperative Series, Youth. March-May, 1975, vol. 7, no. 3. Eight religious education units for use with high school youth, with **Teachers Guide**. Published by Board of Christian Education, United Presbyterian Church in U.S.A., for use in four denominations: United Presbyterian Church in U.S.A., Presbyterian Church, Reformed Church in America.

1976

1976. Review: Donald G. Dawe, **Paul Interpreted for India** in **Interpretation** 30(1976):428-430.

1977

1977. "Special Pleading," *Presbyterian Outlook* 159(no. 10, March 7, 1977):8.

1977. "A Confessionless Church?" *Presbyterian Outlook* 159(no. 18, May 9, 1977):8-9.

1977. "Christ or Truth," *Presbyterian Outlook* 159(no. 33, September 19, 1977):8.

1977. "The Open and the Closed Mind," *Presbyterian Outlook* 159(no. 43, November 28, 1977):8.

1978

1978. Review: Eric Ashby, ***Reconciling Man with the Environment***, 1978. Publication failed.

1979

1979. "Can and Ought We to Follow Nature?" ***Environmental Ethics*** 1(1979):7-30. An invited article launching this journal. Also published in ***Philosophy Gone Wild***.

Reprinted in Andrew Brennan, ed., ***The Ethics of the Environment*** (Aldershot, Hampshire, U.K.: Dartmouth Publishing Co., 1995), pages 365-389.

Reprinted, in German translation, as "Können und sollen wir der Natur folgen?", in Dieter Birnbacher, ed., ***Ökophilosophie*** (Ditzingen, Germany: Philipp Reclam jun. Stuttgart, Reclams Universal-Bibliothek, 1997), pp. 242-285.

Reprinted in part in John Benson, ***Environmental Ethics: An Introduction with Readings*** (London: Routledge, 2000, pages 237-242.

Reprinted in part by The Open University, Milton Keynes, United Kingdom in a published curriculum for a university and correspondence course, A211, Philosophy and the Human Situation.

Reprinted, translated into Chinese, "Zun xun da zi ran (Following Nature)" in ***Zhexue Yicong (Philosophy Translation Series)***, no. 4, 1998, pp. 36-42, Chinese Academy of Social Sciences, Institute of Philosophy, Beijing.

Reprinted in J. Baird Callicott and Clare Palmer, eds., ***Environmental Philosophy: Critical Concepts in the Environment*** (London: Routledge, 2005), vol. 1, pp. 175-198.

1979. "Nature and Human Emotions" in Fred D. Miller, Jr., and Thomas W. Attig, eds., ***Understanding Human Emotions*** (Bowling Green, Ohio: Bowling Green State University Studies in Applied Philosophy, 1979), volume 1, pages 89-96. Reprinted in ***Philosophy Gone Wild***, pp. 248-255.

1979. "The Pasqueflower" ***Natural History*** (Magazine of the American Museum of Natural History) 88 (no. 4, April 1979): 6-16. Philosophical reflection on the

pasqueflower as a floral sign of natural meaning. Reprinted in ***Philosophy Gone Wild***, pp. 256-261.

Reprinted in ***Wilderness***, vol. 29, no. 30, July 1990 (South Africa, Wilderness Leadership School), pp. 5-7.

1979. "Are Universities Helping to Expand Ethics Education?" ***CSU Comments***, November 15, 1979, p. 2.

1980-1989

1980

1980. "Are Colleges and Universities Morally Self-Reproducing?" in ***Presbyterian Outlook***, vol. 162, no. 9, March 3, 1980, page 5. Earlier appeared in "The University Forum," ***CSU Comments***, Nov. 15, 1979.

1981

1981. "Methods in Scientific and Religious Inquiry," ***Zygon: Journal of Religion and Science*** 16(1981):29-63. This is a journal preprint of what was published in 1987 as Chapter 1 in *Science and Religion--A Critical Survey* (New York: Random House, 1987; McGraw-Hill, 1989; Harcourt Brace, 1997, Temple University Press, Philadelphia, hardbound, 1987). Online at <http://hdl.handle.net/10217/37324>

1981. "Values in Nature." ***Environmental Ethics*** 3(1981):113-128.
Also reprinted in ***Philosophy Gone Wild***.

Reprinted, translated into Finnish in Markku Oksanen and Marjo Rauhala-Hayes, eds., ***Ympäristöfilosofia: Kirjoituksia ympäristönsuojelun eettisistä perusteista*** (***Environmental Philosophy: Critical Sources in Environmental Theory and Ethics*** (Helsinki: Gaudeamus, Oy Yliopistokustannus, Finnish University Press, 1997), pages 205-224.

Reprinted, translated into Chinese by Yu Goping, Northeast Forestry University in ***Information of Ecophilosophy***, an occasional publication of the Research Office in Ecophilosophy of the Northeast Forestry University, Harbin, 1989, No. 2.

1981. "The River of Life: Past, Present, and Future," in Ernest Partridge, ed., ***Responsibilities to Future Generations*** (Buffalo, NY: Prometheus Books, 1981), pp. 123-132.

Reprinted, translated into Italian: "Il fiume di vita: passato, presente e futuro," ***Aut Aut: rivista di filosofia e di cultura***, Issue 316-317, July-October 2003, pages 139-144.
Translated by Roberto Peverelli.

1981. "We Should Preserve our Western Skyline," ***Fort Collins Coloradoan***, April 18, 1981, p. A6. Arguing for saving Horsetooth Mountain, west of Fort Collins, as a county

park, against threat of development, and involving additional sales tax for half a year. Also "The Meaning of Good Neighbors," Estes Park, CO, *Trail Gazette*, April 17, 1981.

1982

1982. "The Irreversibly Comatose: Respect for the Subhuman in Human Life," *Journal of Medicine and Philosophy* 7(1982):337-354. Jack P. Freer (Department of Medicine, State University of New York at Buffalo, replies to this article in "Chronic Vegetative States: Intrinsic Value of Biological Process," *Journal of Medicine and Philosophy* 9(1984): 395-407. Michael Seidler (Philosophy, Western Kentucky University) comments further in "'Unregarded Age in Corners Thrown': Moral Bases of our Duties toward the Diminished Elderly," *Modern Schoolman* 64(no. 4)(1989):257-282.

1982. of James W. Jones, *The Texture of Knowledge: An Essay in Science and Religion*, in *Zygon: Journal of Religion and Science* 17(1982):421-423. This is a finely and tightly woven essay about the unweaving of hard and fast claims in both science and religion. James W. Jones advocates what he calls an open texture in both fields. He analyzes three leading philosophers of science: Michael Polanyi, Stephen Toulmin, and Thomas Kuhn. He advocates a "critical relativism." This is a thoughtful essay.

1982. Review of Don Mannison, Michael McRobbie, and Richard Routley, eds., *Environmental Philosophy*, in *Environmental Ethics* 4(1982):69-74.

1982. Review of K. S. Shrader-Frechette, *Environmental Ethics*, in *Zygon: Journal of Religion and Science* 17(1982):95-98. Shrader-Frechette has anthologized 25 selections, chosen to be good beginner's pieces. Often there are opposing articles, and the authors come from diverse fields. The selections are provocative, organized around the right themes, and easily readable.

1982. "Are Values in Nature Subjective or Objective?" *Environmental Ethics* 4(1982):125-151. Reprinted in Robert Elliot and Aaran Gare, *Environmental Philosophy* (St. Lucia, New York, London: University of Queensland Press and

University Park, PA and London: Pennsylvania State University Press, 1983).

Reprinted in Louis P. Pojman, ed., ***Environmental Ethics: Readings in Theory and Application***, 2nd ed. (Belmont, CA: Wadsworth Publishing Co, 1998), pp. 70-81, with response by Ernest Partridge, "Values in Nature: Is Anybody There?".

Reprinted, translated into Chinese, "Ziran zhong de jiashi shi zhuguande haishi keguande?" in ***Huanjing yu Shehui (Environment and Society)*** 1(no. 1, 1998):49-55, first half; 2(no. 1, 1999):53-57, second half. Liu Er, Ye Ping, translators.

1982. "A World on the Verge of Extinction," Review of Alison Jolly, ***A World Like our Own*** (New Haven: Yale University Press, 1980) and "Extinction--Why and Why Not?" Review of Paul and Anne Ehrlich, ***Extinction*** (New York: Random House, 1981). For ***Fauna***, but publication failed.

1983

1983. "Values Gone Wild," ***Inquiry*** 26(1983):181-207.
Reprinted in ***Philosophy Gone Wild***, pp. 118-142.

Reprinted in Susan Armstrong and Richard Botzler, eds., ***Environmental Ethics: Convergence and Divergence*** (New York: McGraw-Hill, 1993), pages 56-65.

Electronically published (2000) in ***Discourses***, the philosophy section of ***Primis*** (McGraw-Hill), an electronic database publication system that enables instructors to create customized anthologies for their courses. See web page: <http://mhhe.com/primis/philo>.

Also published in proceedings, ***Third Annual Conference (1982), Wilderness Psychology Group*** (Morgantown, W.V.: Division of Forestry, West Virginia University, 1983).

1983. Review of Paoli Soleri, *The Omega Seed: An Eschatological Hypothesis*, in *Zygon: Journal of Religion and Science*, 18(1983):456-459. Soleri believes in an Omega God. Our present human challenge is to become what we are, the seed of God, and hence Soleri's title. Soleri's creed is: "There is no God yet, and Soleri is his prophet." This is best considered a hypothesis and we wait to see if there are any fruits. Online at: <https://hdl.handle.net/10217/210926>

1983. "Is There an Ecological Ethic?" Reprinted in Donald Scherer and Thomas W. Attig, eds., *Ethics and the Environment* (Englewood Cliffs, NJ: Prentice Hall, 1983). Originally in *Ethics: An International Journal of Social and Political Philosophy* 85(1975):93-109.

1983. "Are Values in Nature Subjective or Objective?" Reprinted in Robert Elliot and Aaran Gare, *Environmental Philosophy* (St. Lucia, New York, London: University of Queensland Press and University Park, PA and London: Pennsylvania State University Press, 1983). Originally in *Environmental Ethics* 4(1982):125-151.

1984

1984. "*Bryum knowltonii* New to the United States," *Bryologist* 85(1982):420. Cited in G. C. S. Clarke, "Recent Bryological Literature," *Journal of Bryology* 13(1984):299-318. A collection by Rolston of *Cynodontium gracilescens*, a moss known in North

America from only six collections, is cited in Frederick J. Hermann and William A. Weber, "Occurrence of *Cynodontium gracilescens* in North America (Colorado)," *Bryologist* 88(1985):26.

1984. "Just Environmental Business." Chapter 11, pages 324-359, in Tom Regan, ed., *Just Business: New Introductory Essays in Business Ethics* (New York: Random House, 1984), a college text in business ethics. Papers and correspondence. Online at: <http://hdl.handle.net/10217/46010>.

Reprinted in *Philosophy Gone Wild*, pp. 144-179.

Reprinted in Dale Westphal and Fred Westphal, eds., *Planet in Peril: Essays in Environmental Ethics* (Fort Worth: Harcourt Brace College Publishers, 1994), pp. 149-170.

1984. Review of J. Ronald Engel, *Sacred Sands: The Struggle for Community in the Indiana Dunes*, in *Zygon: Journal of Religion and Science* 19(1984):508-511. Sacred Sands is a welcome contribution to religious studies, environmental ethics, and American history. Ron Engel narrates the bitterly contested struggle to save the Indiana Dunes on Lake Michigan. This is a story of the people of Chicago and their landscape with moral vision for Americans and their landscapes everywhere. Online at: <https://hdl.handle.net/10217/210817>

1984. "Save Poudre as Signature of Eternity," *Fort Collins Coloradoan*, January 18, 1984, p. A4. Arguing for saving the Poudre River, west of Fort Collins, as wild and scenic river, against threat of water development and dams.

1985

1985. "Duties to Endangered Species." *BioScience* 35(1985):718-726. Online at: <http://hdl.handle.net/10217/37103>

Reprinted in Robert Elliot, ed., *Environmental Ethics*, Oxford Readings in Philosophy Series (Oxford: Oxford University Press, 1995), pp. 60-75.

Reprinted in Andrew Brennan, ed., *The Ethics of the Environment* (Aldershot, Hampshire, U.K.: Dartmouth Publishing Co., 1995), pages 77-85.

Reprinted in J. Baird Callicott and Clare Palmer, eds., *Environmental Philosophy: Critical Concepts in the Environment* (London: Routledge, 2005), vol. 4, pp. 263-277.

Reprinted in Raymond Bradley and Stephen Duguid, eds., *Environmental Ethics*, Volume II (Burnaby, BC: Simon Fraser University, Institute for the Humanities, 1989), pp. 67-83.

Reprinted in James P. Sterba, ed., *Earth Ethics: Environmental Ethics, Animal Rights, and Practical Applications* (Englewood Cliffs, NJ: Prentice-Hall, 1995), pp. 317-328.

Reprinted in Frederick A. Kaufman, *Foundations of Environmental Philosophy: A Text with Readings* (Boston: McGraw Hill, 2003), pp. 67-73.

1985. "Valuing Wildlands," *Environmental Ethics* 7(1985):23-48.

Reprinted in *Philosophy Gone Wild*, pp. 180-205.

Reprinted in R. Kerry Turner, Kenneth Button, and Peter Nijkamp, eds. ***Ecosystems and Nature: Economics, Science and Policy*** (Cheltenham, Gloucester, UK: Edward Elgar Publishing Co., 1999), pages 463-488.

Reprinted in J. Baird Callicott and Clare Palmer, eds., ***Environmental Philosophy: Critical Concepts in the Environment*** (London: Routledge, 2005), vol. 3, pp. 320-346.

1985. ***Religious Inquiry--Participation and Detachment*** (New York: Philosophical Library, Publishers, 1985). 309 pages. Participation and detachment as requisite to understanding and verifying religious truth, with implications for religious studies in the university. The study focuses on Augustine (Christianity), al-Ghazali (Islam), Sankara (Hinduism), Nagarjuna (Buddhism), analyzed in the light of contemporary philosophy of religion.

1985. Review of Alexander Rosenberg, ***The Structure of Biological Science*** Cambridge: Cambridge University Press, 1985), in ***BioScience*** 36 (1986):746-748.

1985. Review of John Livingston, ***The Fallacy of Wildlife Conservation*** in ***Environmental Ethics*** 7(1985):177-180.

1985. Review of Leroy S. Rouner, ed., ***On Nature***, in ***Canadian Philosophical Reviews*** 5(1985):388-390.

1985. Interview with John Calvin. ***Meeting of Theological Minds***. Dialogue presentation at First Presbyterian Church. Repeated October 29, 1989, then videotaped, VHS copy in CSU archives.

1985. "Is There an Ecological Ethic?" Reprinted in Martin Wachs, ed., ***Ethics in Planning*** (New Brunswick, NJ:Center for Urban Policy Research, Rutgers University, 1985). Originally in ***Ethics: An International Journal of Social and Political Philosophy*** 85(1975):93-109.

1986

1986. "Shaken Atheism: A Look at the Fine-Tuned Universe," ***Christian Century*** 103(1986):1093-1095.

Reprinted in Janelle Rohr, ed., ***Science and Religion: Opposing Viewpoints*** (St. Paul, MN: Greenhaven Press, 1988), pages 125-130.

1986. "The Preservation of Natural Value in the Solar System," in Eugene C. Hargrove, ed., ***Beyond Spaceship Earth: Environmental Ethics and the Solar System*** (San Francisco: Sierra Club Books, 1986), pp. 140-182. Originally presented at conference on "Environmental Ethics and the Solar System," June 5-8, 1985, University of Georgia, Athens, and sponsored by EVIST, National Science Foundation, and the Planetary Society.

1986. "The Human Standing in Nature: Fitness in the Moral Overseer," in Wayne Sumner, Donald Callen, and Thomas Attig, eds., ***Values and Moral Standing*** (Bowling Green, OH: Bowling Green State University Studies in Applied Philosophy, 1986), volume 8, pp. 90-101.

1986. ***Philosophy Gone Wild*** (Buffalo, NY: Prometheus Books, 1986). 269 pages. A collection of essays in environmental ethics. Paperbound edition 1989.

Chinese translation, ***Zhexue Zou xiang huangye [Philosophy Gone Wild]*** by Liu Er and Ye Ping, Green Classical Library, Jilin: Jilin renmin chubanshe (Jilin People's Publishing House), 2000. Authorized translation by Institute of Philosophy, Chinese Academy of Social Sciences. ISBN 7-206-02818-7.

1986. Review of Mary Anglemeyer and Eleanor S. Seagraves, compilers, ***The Natural Environment: An Annotated Bibliography on Attitudes and Values***, in ***Environmental Ethics*** 8(1986):91-93. The compilers make serious effort to include different perspectives, and this edition is more adequate to environmental ethics and values than an earlier edition. For both the editors, now retired librarians, this is largely a labor of love. Online at: <https://hdl.handle.net/10217/211417>

1986. Review of Bryan G. Norton, ed. ***Preservation of Species***, in ***Canadian Philosophical Reviews***, 6, no. 10 (December 1986): 519-521. This journal is now titled ***Philosophy in Review***. Norton provides the best of the philosophical and policy-oriented efforts to justify conservation. Academics and policy makers here enter a stimulating colloquy about saving endangered species, strikingly illustrating how so called “applied philosophy” also requires exploring theoretical issues. Norton claims, however, that we do not always have to solve such issues to agree on management strategies. Online at: <https://hdl.handle.net/10217/211066>

1986. Review of Kenneth Cauthen, ***Process Ethics: A Constructive System***, in ***Zygon: Journal of Religion and Science*** 21(1986):395-398. This is a process oriented theology, blending Christian ethics based on the Bible and moral philosophy based on reason and experience. He synthesizes rights-based and utilitarian ethics, agape and eros, love and justice, individual and community, Christian ethics and evolutionary processes, self-love and altruism. Online at: <https://hdl.handle.net/10217/210927>

1986. Review of A. N. Wilson, ***How Can We Know? An Essay on the Christian Religion***, in ***Theology Today*** 43(1986):138-139. A British novelist, critic, and controversial former editor of the Spectator is here an intense disciple of Christ. *How Can We Know?* is A. N. Wilson's searching Apologia Pro Vita Sua, urbane, gracefully written, and a remarkable tribute to the vitality of Christianity in what many predicted to be a post-Christian generation. Wilson is shrewd in his capacity to recontact a person behind the witness of the early church and the New Testament, a person there who becomes a Presence here. Online at: <https://hdl.handle.net/10217/211067>

1986. July 17-21, 1986. Popo Agie Wilderness trip, with National Outdoor Leadership School, from Lander, Wyoming. With Bev Driver and others.

Drove to Lander in government car, with my son Giles. Spent most of afternoon getting outfitted, introduced to NOLS, National Outdoor Leadership School, and got on bus to go to vicinity of Dickinson Park, where we camped with Allen Brothers, outfitters, and were fed supper in a cabin there. Breakfast there, then onto bus for several miles to Dickinson Park; then on foot the rest of the day. Hiked in to Smith Lake and then to Cook Lake, where we camped throughout. Participants were U.S. Forest service wilderness rangers. Rolston was leading discussions on intrinsic values in wilderness, evenings. Hiked to Cathedral Lake, nice hike. Rather starchy rations; no meat; but, spiced up, were pretty good. A favorite is caus-caus, or couscous (from N. Africa, a cracked wheat that cooks up rather like grits, served with cheese, or with sugar as a desert). Hiked to up Lake Phyllis (not named on map), just below which there was a fresh avalanche fall with much windthrown timber (now melted), but must have avalanched in March or April. Went on to Mendarrin Lake, very nice forest floor in here, good timber (limber pines, with glacial erratics). Mendarrin lake is in a fine cirque. After several days, hiked out, nice hike. Drove home.

The detailed record of this trip is online: Rolston – Trail Log 1980-1989
<http://hdl.handle.net/10217/39098>

1987

1987. "Beauty and the Beast: Aesthetic Appreciation of Wildlife," in D. J. Decker and G. Goff, ***Valuing Wildlife Resources: Economic and Social Perspectives*** (Boulder, CO: Westview Press, 1987), pp. 187-207.

Reprinted in ***The Trumpeter*** (Canada) 3, no. 3 (Summer 1986):29-34.

1987. "Beyond Recreational Value: The Greater Outdoors," in Laura B. Szwak, ed., ***Americans Outdoors: A Literature Review*** (Washington: Government Printing Office,

1987) Paper commissioned by President's Commission on Americans Outdoors.

1987. "Can the East Help the West to Value Nature?" *Philosophy East and West* 37(1987):172-190 .

1987. "Critics' Choices," short review by invitation in a group of twelve critics choices, selected for Religious Book Week issue, *Commonweal* 114, no. 5 (13 March 1987):149-159, on pp. 152-153. Reviews of John D. Barrow and Frank J. Tipler, *The Anthropic Cosmological Principle*, D. J. Bartholomew, *God of Chance*, and Ernan McMullin, *Evolution and Creation*.

1987. "Duties to Ecosystems," in J. Baird Callicott, ed. *Companion to a Sand County Almanac* (Madison, WI: University of Wisconsin Press, 1987), pp. 246-274.

1987. "Engineers, Butterflies, Worldviews," *The Environmental Professional* 9(1987):295-301. Invited article in special issue: "Environmental Science and Values."

1987. "On Behalf of Bioexuberance," *Garden* 11, no. 4 (July/August 1987): 2-4, 31-32. Article commissioned by New York Botanical Gardens, in consortium with fourteen botanical gardens around the U. S., for their journal.

Reprinted in *The Trumpeter* (Canada) 5, no. 1 (Winter 1988): 26-29.

Reprinted in *Wilderness Record: Proceedings of the California Wilderness Coalition*, vol 17, no. 4, April 1992, p. 4.

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<http://www.ecospherics.net>. Ted Mosquin, editor.

1987. "Science and the Ways to God: Stanley Jaki's Vision of Scientific Creativity," **Commonweal** 94, no. 10 (22 May 1987):313-316. Invited article appraising the work of Stanley Jaki, on his receiving the Templeton Award.

1987. "Values Deep in the Woods: The Hard-to-Measure Benefits of Forest Preservation." Pages 315-319 in **Economic and Social Development: A Role for Forests and Forestry Professionals--Proceedings of the Society of American Foresters**, 1987 National Convention, Minneapolis. Bethesda, MD: Society of American Foresters, 1988. Invited lecture at the annual convention of the Society of American Foresters, October 1987, Minneapolis, MN.

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1990. "Joining Science and Religion," in Robert John Russell, William R. Stoeger, and George V. Coyne, eds., ***John Paul II on Science and Religion: Reflections on the New View from Rome*** Rome: Vatican City State, Vatican Observatory Foundation, 1990 (in U.S.: University of Notre Dame Press), pages 83-94. Invited analysis of a Roman Catholic declaration on the relations between science and religion.

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she hui k'o hsüeh, 1994. Beijing: Chinese Social Science Press, 1994. ISBN 7-5004-1514-1. Pages 259-275.

1990. "The Spring Bear Hunt Isn't Fair. End it," ***The Denver Post***, Sunday, May 6, 1990, sec. H, page 1. Article arguing against spring bear hunting in the state of Colorado.

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Problemy i Obshchechelovecheskiye Tsennosti (Global Problems and Human Values)

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"Genes, Genesis, and God in Natural and Human History," pp. 9-23, **Center for Theology and Natural Sciences Bulletin**, vol. 11, no. 2, the proceedings of a research conference devoted to Rolston's work at the Center for Theology and Natural Sciences, Graduate Theological Union, Berkeley, CA, February 8-16, 1991.

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1991. Robert T. Schimke, "Reflections from a Molecular Biologist," pp. 24-31.
1991. Walter R. Hearn, "Science, Selves, and Stories," pp. 26-31.
1991. Ted Peters, "Beyond the Genes: Epigenesis and God," pp. 34-35.
1991. Carol J. Tabler, "Value Vocabulary in Biology and Theology," pp. 32-33.
1991. Margaret R. McLean, "A Moral World 'Red in Tooth and Claw'," pp. 36-38.

1991. "The Wilderness Idea Reaffirmed," **Environmental Professional** 13(1991):370-377.

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1991. "Using Water Naturally," Natural Resources Law Center, University of Colorado, Western Water Policy Project, Discussion Series Paper No. 9, 1991.

Shorter version in Kathleen C. Klein, ed., ***Seeking an Integrated Approach to Watershed Management in the South Platte Basin*** (Fort Collins, CO: Colorado Water Resources Research Institute, Colorado State University, 1993), pp. 3-8.

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1991. Review, Michael C. Banner, ***The Justification of Science and the Rationality of Religious Belief*** (Oxford: Oxford University Press at Clarendon, 1990) in ***Journal of the American Academy of Religion*** 59 (no. 2, 1991):389-392.

1991. Review, John Leslie, ***Universes*** (London and New York: Routledge, 1989) and John Leslie, ed., ***Physical Cosmology and Cosmology*** (New York: Macmillan, 1990) in ***Zygon: Journal of Religion and Science*** 26(1991):317-324. John Leslie is the philosopher who has most devoted himself to the analysis of recent claims that our universe is fine-tuned for producing life. Here we have the fruit of Leslie's work across two decades, summarized in one accessible book of manageable length, seriously argued but neither overly technical nor esoteric. In a companion book, ***Physical Cosmology and Philosophy***, Leslie couples his systematic treatment with an anthology of the principal articles in the field. Together, the two books are excellent texts for a stimulating class on cosmology. Online at: <https://hdl.handle.net/10217/210747>

1991. Research at Colorado State University. With Rolston feature.

1991, "Smart Genes," ***Science and Religion News***, Institute on Religion in an Age of Science, 1991. Published??

1991. Caring for the Earth: A Strategy for Sustainable Living. Gland, Switzerland: IUCN: The World Conservation Union, October 1991. Final publication of much revised drafts. Second draft, ***Caring for the World: A Strategy for Sustainability***, June 1990. The ethics material herein was supposedly prepared by the IUCN Ethics Working Group, J. Ronald Engel, Chair, on which Rolston served four or five years, meeting half a dozen times, including World Conservation Strategy Conference, Ottawa, Canada, May 31-June 5, 1986, sponsored by United Nations Environment Programme and International Union for the Conservation of Nature and Natural Resources (IUCN). Rolston was invited to write a preface for the strategy, and did so, "The Epic of Life on the Home Planet," but they revised the strategy endlessly and it disappeared.

1991. "A Simple Test," ***Alive Now! The Earth***, January/February 1991, pp. 54-55. ISSN 0891-8767. Devotional booklet for youth, published by The Upper Room, Nashville, TN. Reprints the test for a resident environment from ***Environmental Ethics***, pp. 347-349.

Saturday, November 16, 1991. Charleston, SC. Bull Island, in Cape Romanin Migratory Bird Refuge. Spoke at College of Charleston, Thursday and Friday. With Ned Hettinger. Boat over to Bull Island. The island is separated from the mainland by extensive Spartina wetlands, with some channels through open water. About 40 minute ride. There are two red wolves on the island; one is penned and the other free. The pups from this pair are reintroduced in North Carolina. Walked around the island. Saw wolf track several times. Porpoises. Alligators, two hundred on the island. The detail of this trip is online: Rolston - Trail Log 1990 – 1994 <http://hdl.handle.net/10217/39096>

1991. Hawaii. May 22-30, 1991. XVII Pacific Science Congress, Honolulu, and visit before to Hawaii Volcanoes National Park, on the big island: Hawaii. Kilauea Crater. Thurston Lava tube. Some walks in the forest. Memorable evening walk into see the lava flow, lava pouring down into the sea. Rolston's reflections on the native people of Hawaii and their relationship to volcanos may be found in: "Does Aesthetic Appreciation of Nature Need To Be Science-based?" Online streaming media at: <http://hdl.handle.net/10217/37809>

Report on Trip to China, October 1991

Flew to Beijing. The Chinese Academy of Sciences was one unit until 1977, when, for political reasons, it was separated into the Chinese Academy of (Natural) Sciences and the Chinese Academy of Social Sciences. There are about 80,000 persons in the Chinese Academy of Sciences. There are about 5,000 persons now attached to the Chinese Academy of Social Sciences, and it does not receive particularly good support as the government is not altogether happy with some of the free-thinking elements there. Within the Chinese Academy of Social Sciences there are various institutes, one of which is the Institute of Philosophy. The Chinese do not have any field called the humanities, though they do have art, music, and literature, outside the social sciences.

The Institute of Philosophy contains about 260 philosophers in about ten departments: Department of Historical Materialism, Department of Dialectical Materialism, Department of History of Traditional Chinese Philosophy, Department of Dialectics of Nature, Department of Ethics, Department of Aesthetics, Department of History of Western Philosophy, Department of Modern Western Philosophy, Department of Logics. The Chinese do philosophy of nature under the term "dialectics of nature," which for them also includes philosophy of science.

Lecture at Graduate School, Chinese Academy of Social Sciences. Host: Professor Chen King, Director, Department of Ethics, Institute of Philosophy, and Secretary, Chinese Society of Ethics, and others. Lecture at People's University, hosted by Chinese Society of Ethics. (This university was later renamed Renmin University of China.) Lecture at the Research Center for Eco-Environmental Sciences, Department of Systems Ecology. Hosted by Dr. Zhao Jungshu, Professor and Deputy Director. Lecture at Chinese Academy of Social Sciences, Institute of Philosophy. Lecture at Qinghua University. Host: Professor Liu Yuang-Liang, Vice-Chairman, Department of Social Science, Tsinghua University, and others. Beijing Agricultural University. Hosts: Professor Han Chun-Ru, Department of Agronomy, Beijing Agricultural University, and others.

Flew to Shanghai and rode train to Suzhou for visit to Suzhou Institute of Urban Construction and Environmental Protection, also Suzhou University. Host: Yao Yanxian, President. Host: Quanda Yang, Dean, and Chairman, Department of Environmental Protection. Host: Dr. Zou Enmin, Department of Environmental Protection. Dinner hosted by Department of Politics, Suzhou University. Return to Shanghai, Beijing, flights to U.S.

A more detailed report is online: Rolston – Trail Log 1990 – 1994
<http://hdl.handle.net/10217/39096>

1991. *Drosera*, sundew, trip in Routt National Forest, Mt. Zirkel Wilderness, Colorado, with Kevin Cook. August 21-22, 1991. Maps and other materials. Drive to Walden. Consultation with Betsy Neeley (wife of Alan Carpenter) who knows the location, and Forest Service people, for photomaps. Plans to make this a Research Natural Area. Drive to Big Creeks Lake trailhead. Backpacking hike on Grizzly-Helena trail, taking junction to Fryingpan Basin trail. Up Shafer Creek. Rolston has marked the best *Drosera* site on the Boettecher Lake topo, though the Frying pan Basin continues on the Mt. Zirkel topo. In two days of searching, found hundreds of *Drosera*, sundew, a carnivorous plant, far more than previously known. Wood frog. Extensive floating Sphagnum mat. Apparently old glacial kettles.

The detail of this trip is in Rolston Trail Log – 1990 – 1994. Online at:
<http://hdl.handle.net/10217/39096>

1992

1992. University Distinguished Professor. Memorabilia. Channel 14 News item on videotape.

1992. "Disvalues in Nature," *The Monist* 75(1992):250-278.

Reprinted in Andrew Brennan, ed., *The Ethics of the Environment* (Aldershot, Hampshire, U.K.: Dartmouth Publishing Co., 1995), pages 87-115.

1992. "Ethical Responsibilities toward Wildlife," *Journal of the American Veterinary Medical Association* 200(1992):618-622.

1992. "Science and Christianity," in Donald W. Musser and Joseph L. Price, eds., *The New Handbook of Christian Theology* (Nashville: Abingdon Press, 1992), pages 430-432. Revised article, *New and Enlarged Handbook of Christian Theology* (Nashville: Abingdon Press, 2003), pages 450-454.

1992. "Wildlife and Wildlands: A Christian Perspective," ***Church and Society*** 80 (no. 4, March/April 1990):16-40.

Reprinted in ***After Nature's Revolt: Eco-justice and Theology***, Dieter T. Hessel, ed., (Minneapolis: Fortress Press, 1992), pages 122-143.

Reprinted in part as "Christians, Wildlife, Wildlands," in ***Earth Letter***, January 2001, pp. 4-6. (Earth Ministry, 1305 NE 47th St., Seattle, WA 98105.

Reprinted, translated into Chinese in Dieter T. Hessel, ed., ***Shengtai gongyi: Dui dadi fanpuide xinyang fanxing*** (Taiwan: Digiuri Chubanshe, 1997), pp. 233-256. Translated by Text Committee of the Taiwan Ecological Theology Center. ISBN 0-8006-2532-3.

1992. Combined review of:

Brian Huntley, Roy Siegfried, and Clem Sunter, ***South African Environments into the 21st Century***. Cape Town: Human and Rousseas (Pty) Ltd., and Tafelberg Publishers, Ltd., 1989.

Rob Preston-Whyte and Graham House, eds. ***Rotating the Cube: Environmental Strategies for the 1990's***, An ***Indicator South Africa*** Issue Focus. Durban: Department of Geographical and Environmental Sciences and Indicator Project South Africa, University of Natal, April 1990).

Alan B. Durning, ***Apartheid's Environmental Toll***. Washington, D. C.: Worldwatch Institute, 1990).

In ***Environmental Ethics*** 14(1992):87-91.

1992. Review of Richard Olson, ***Science Deified and Science Defied: The Historical Significance of Science in Western Culture***. Volume 2: ***From the Early Modern Age through the Early Romantic Era, ca. 1640 to ca. 1820*** (Berkeley: University of California Press, 1990) in ***Quarterly Review of Biology*** 67(1992):349.

1992. Review, Lawrence E. Johnson, ***A Morally Deep World: An Essay on Moral Significance and Environmental Ethics*** (Cambridge, England: Cambridge University Press, 1991) in ***Center for Theology and the Natural Sciences Bulletin***, vol. 11, no. 4 (1992):17-19.

1992. "Religion in an Age of Science; Metaphysics in an Age of History," commissioned longer critical review of Ian Barbour, ***Religion in an Age of Science: The Gifford Lectures***, vol. 1 (San Francisco: Harper and Row, 1990) in ***Zygon: Journal of Religion and Science*** 27(1992):65-87. This is a welcome systematic, theoretical overview of the relations between science and religion, Gifford lectures culminating Barbour's long career with a balanced and insightful appraisal. The hallmarks are critical realism, holism, and Barbour makes more investment in process philosophy. This invites further inquiry about the adequacy of a highly general process metaphysics in dealing with our particular, deeply historical world. Online at: <https://hdl.handle.net/10217/210745>

1992. "Environmental Ethics," ***Environmental Encyclopedia***, Detroit: Gale Research. Article failed to be published. But there is a Rolston biography in this encyclopedia. "Rolston, Holmes (1932-). Biographical article in ***Environmental Encyclopedia***, 1st edition (Detroit: Gale Research, Inc., 1994), pp. 718-719. Also reprinted in later editions.

1992. "Down to Earth: Persons in Place in Natural History." Failed to appear in William Vitek and Wes Jackson, eds., ***Home Territory***.

Published as "Down to Earth: Persons in Place in Natural History." In Rana P. B. Singh, ed., ***Environmental Ethics: Discourses, and Cultural Traditions: Festschrift to Arne Naess*** (Varanasi, India: The National Geographical Society of India, 1993), pages 55-63

Also published as the ***National Geographical Journal of India***, vol. 39, parts 1-4, 1993.

Also published as: "Down to Earth: Persons in Place in Natural History." Pages 285-296 in Andrew Light and Jonathan M. Smith, eds., ***Philosophy and Geography III: Philosophies of Place***. Lanham, MD: Roman and Littlefield, 1998.

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1992. "Can and Ought Humans Lose in Environmental Ethics?" ***IRAS Newsletter*** (Institute on Religion in an Age of Science), vol 40, no. 3, 15 April 1992, pp. 2-3. Condensed version of article then in press, published as "Winning and Losing in Environmental Ethics." In Frederick Ferré and Peter G. Hartel, eds., ***Ethics and Environmental Policy: Theory Meets Practice*** (Athens: University of Georgia Press, 1994), pages 217-234.

1992. "Challenges in Environmental Ethics." Reprinted in David E. Cooper and Joy A. Palmer, eds., ***The Environment in Question*** (London: Routledge, 1992), pages 135-146. Despite earlier date, primary publication was: Pages 135-157 in Michael E. Zimmerman, J. Baird Callicott, George Sessions, Karen J. Warren, and John Clark, eds., ***Environmental Philosophy: From Animal Rights to Radical Ecology***. Englewood Cliffs, NJ: Prentice-Hall, 1993.

1992. "Winning and Losing in Environmental Ethics." Condensed version published in ***IRAS Newsletter*** (Institute on Religion in an Age of Science), vol 40, no. 3, 15 April 1992, pp. 2-3.

Full version first in Frederick Ferré and Peter G. Hartel, eds., ***Ethics and Environmental Policy: Theory Meets Practice*** (Athens: University of Georgia Press, 1994), pages 217-234. Keynote address at University of Georgia Conference, "Environmental Ethics: Theory into Practice," April 5-7, 1992.

1992. Brazil and Central America, 1992. UNCED United Nations Conference on Environment and Development, in Rio de Janeiro. May 23 – July 2, 1992. Flew Denver to Miami, joined J. Baird Callicott, University of Wisconsin, Stevens Point, flew Varig to Rio de Janeiro. Flew from Rio de Janeiro to Porto Alegre, met by Fernando Jose da Rocha, my host. Conference, 5 days, on Ethics, University, and Environment at the Federal University Rio Grande do Sul in Porto Alegre. Flight back to Rio. Local host: Daniel Crabb, Union Church of Rio de Janeiro. Stayed at his home in condominium at Barra de Tijuca. Global Forum. Attending the United Nations Conference on Development and Environment at Riocentro, four days. Spoke at Union Church of Rio de Janeiro.

Flew to Cuiaba, Brazil. Chapada dos Guimaraes trip. Pantanal. Numerous species of birds. Iguana lizards, howler monkeys, piranha, capybara, caiman (a sort of crocodile)

Flew to Manaus, Amazon trip. Amazon Lodge. Took a boat down the Rio Negro and then out onto the Rio Solimoes. Crossed the Meeting of the Waters. Motor boats and rode upriver, up the Araca and Mamori Rivers. Paddling trip. Boat ride up Lake Juma. Pitched jungle camp with hammocks. Explorations. Dolphins. Porpoise. Birds. Return to Amazon Lodge. Return to Manaus. Ferry across the Amazon in the dark.

Flew to Miami. Flew to Tegucigalpa, Honduras, for conference, International Development Ethics Association, four days. Led panels on wilderness in Third World, Earth Summit at Rio, and intrinsic value in nature. Field trips. Four-eyed fish.

Flew to San Jose, Costa Rica. Whitewater rafting trip on Rio Reventazon. Trip to Barva Volcano. Trip to Rincon de la Vieja Volcano Park. Horseback riding. Flights home via Miami, Washington, Denver.

Rolston wrote a summary of the Earth Summit in Rio in J. Baird Callicott and Robert Frodeman, eds., *Encyclopedia of Environmental Ethics and Philosophy*, 1: 223-225. Detroit, MI: Gale, 2009. Online at: <http://hdl.handle.net/10217/38986>

The detailed record of these trips in Brazil and Central America can be found in Rolston – Trail Log – 1990-1994 online at <http://hdl.handle.net/10217/39096>

1993

1993. "Challenges in Environmental Ethics." Pages 135-157 in Michael E. Zimmerman, J. Baird Callicott, George Sessions, Karen J. Warren, and John Clark, eds., ***Environmental Philosophy: From Animal Rights to Radical Ecology***. Englewood Cliffs, NJ: Prentice-Hall, 1993. Pages 124-144, second edition, 1998. Pages 126-146, third edition, 2001. Pages 82-102 in Michael E. Zimmerman, J. Baird Callicott, Karen J. Warren, Irene J. Klaver, and John Clark, eds., fourth edition. Upper Saddle River, NJ: Pearson/Prentice Hall, 2005.

Reprinted in David E. Cooper and Joy A. Palmer, eds., ***The Environment in Question*** (London: Routledge, 1992), pages 135-146.

Reprinted in Lawrence H. Hinman, ed., **Contemporary Moral Issues: Diversity and Consensus**, 2nd ed. Upper Saddle River, NJ: Prentice Hall, 2000. Pages 587-604. 3rd, ed., 2005, pages 427-443.

1993. "Biophilia, Selfish Genes, Shared Values" Pages 381-414 in Stephen R. Kellert and Edward O. Wilson, eds., **The Biophilia Hypothesis: A Theoretical and Empirical Inquiry** (Washington: Island Press, 1993).

1993. "Down to Earth: Persons in Place in Natural History." In Rana P. B. Singh, ed., **Environmental Ethics: Discourses, and Cultural Traditions: Festschrift to Arne Naess** (Varanasi, India: The National Geographical Society of India, 1993), pages 55-63; also published as the **National Geographical Journal of India**, vol. 39, parts 1-4, 1993.

1993. "Environmental Ethics: Some Challenges for Christians." In Harlan Beckley, ed., **The Annual: Society of Christian Ethics** (Washington: Georgetown University Press, 1993), pages 163-186. Keynote address at the Society of Christian Ethics, Annual National Conference, Savannah, GA, January 8-10, 1993.

Reprinted in **The Egg: An Eco-Justice Quarterly** (Environmental Justice Working Group of the National Council of Churches) vol. 13, no. 3 (summer 1993):6-10, 18.

Reprinted in **Church and Society**, July/August 1996, pages 37-50.

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Reprinted in Susan J. Armstrong and Richard G. Botzler, eds., **Environmental Ethics: Divergence and Convergence**, 3rd ed. (Boston: McGraw Hill, Inc., 2004), pp. 231-239.

1993. "Rights and Responsibilities on the Home Planet," ***Yale Journal of International Law*** 18 (no. 1, 1993):251-279. Invited paper at Symposium on Human Rights and the Environment, Yale Law School and the American Association for the Advancement of Science, April 1992. Online at: <http://hdl.handle.net/10217/39373>

1993. "Rights and Responsibilities on the Home Planet." Short version in ***Zygon: Journal of Religion and Science*** 28(1993):425-439. Originally in ***Yale Journal of International Law*** 18 (no. 1, 1993):251-279. Online at: <https://hdl.handle.net/10217/210746>

1993. "The Value of Life for Itself," in Elliott A. Norse, ed., ***Global Marine Biological Diversity: A Strategy for Building Conservation into Decision Making*** (Washington, DC: Island Press, 1993), pages 34-36.

1993. "Whose Woods These Are. Are Genetic Resources Private Property or Global Commons?" ***Earthwatch***, vol. 12, no. 3 (March/April 1993): 17-18.

1993. Review of H. Paul Santmire, ***The Travail of Nature: The Ambiguous Ecological Promise of Christian Theology***. Fortress Press, Philadelphia, 1985, 1991. In ***Interpretation: Journal of Bible and Theology*** 47:(July 1993):335-336.

1993. "A Philosopher Gone Wild," biographical feature in David D. Karnos and Robert G. Shoemaker, eds., ***Falling in Love with Wisdom: American Philosophers Talk About Their Calling*** (New York: Oxford University Press, 1993), pp. 184-187.

1993. "Biology and Philosophy in Yellowstone," pp. 29-38. "Values Gone Wild," pp. 56-65. Reprinted in Susan Armstrong and Richard Botzler, eds., ***Environmental Ethics: Convergence and Divergence*** (New York: McGraw-Hill, 1993). (First edition)

1993. "Using Water Naturally," Shorter version in Kathleen C. Klein, ed., ***Seeking an Integrated Approach to Watershed Management in the South Platte Basin*** (Fort Collins, CO: Colorado Water Resources Research Institute, Colorado State University, 1993), pp. 3-8. Originally: Natural Resources Law Center, University of Colorado, Western Water Policy Project, Discussion Series Paper No. 9, 1991.

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63; also published as the **National Geographical Journal of India**, vol. 39, parts 1-4, 1993.

1993. "Does Nature Need To Be Redeemed? Published in **Horizons in Biblical Theology** 14 (no. 2, 1993):143-172. The primary publisher, though released later, is: **Zygon: Journal of Religion and Science** 29(1994):205-229. Online at: <http://hdl.handle.net/10217/36766>

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The primary publisher, with a later date, is Ke Chung Kim and Robert D. Weaver, eds., **Biodiversity and Landscape** (New York: Cambridge University Press, 1994), pages 47-60.

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1993. "Philosophers Are Vital," commentary in Colorado State University **Comment**, September 30, 1993, vol. 24, no. 6. Reflections on the 19th World Congress of Philosophy, August 21-28, Moscow, and the role of philosophy in international affairs, following the collapse of the Soviet Union. "A collapsed world view in which a people have trusted for most of a century is a philosophical tragedy, leaving a great nation spiritually and materially in ruins, at great cost in human suffering. Philosophy is vital in making and keeping life human."

Okefenokee Swamp, Georgia. May 14, 1993. Left Valdosta State University about 1.30 after lecturing there in the morning and evening before. With Jim Hill, philosophy professor. Freakish storm hit the town the afternoon before, after I arrived, and twisted out several dozens of trees here and there throughout town, though there was no storm at all in the part of town I was in, and I slept through it. Some said it was a tornado?

Drove to Fargo and thence to Stephen C. Foster State Park, contained within the Okefenokee National Wildlife Refuge. This is principally a campground and boat renting and launching area. Walked around the nature trail, lots of *Sphagnum* moss. Pileated woodpecker, nice views. Armadillo about dark, but still nicely visible, and rather tame. I watched him at length on edge of road and crossing road. They first appeared here in the 1960's. Much evidence of their digging along the roadsides. Barred owls calling in the night, first the typical calls before we went to bed, and, in the middle of the night, a terrible skwacking and fussing, said to be a territorial fuss. Also chuck will's widow (presumably, from range maps, not a whip-poor-will).

May 15, 1993. Canoeing for the day. Five canoes, including Brad Bergstrom, Dept. of Biology, VSU. Canoeed to landing at Billy's Island, and got out and walked around. Billy Bowlegs was an Indian who lived here. Indians persisted in the swamps and raided the settlers some. There was in early 1900's here a Cypress Timber Company town. There were cypress in the swamp said to be 2,000 year old, often many hundred of years old, and all these were cut out. The typical tree we saw was cypress but only about a hundred years old. We saw a few that were three or four hundred years old. This is Pond cypress, *Taxodium distichum nutans*.

Pines on the island were loblolly and slash. Bergstrom think the original pine here may in fact have been longleaf, now gone due to fire suppression. Alligators. About twelve seen during the day, always at the edge of the waterway, with eyes and upper head and often upper part of the back out of the water. Passed quite near to some and they did not spook, though others did. Some seemed large, six feet or more. The "bullfrog" here is the pig frog, *Rana grylio*, often heard during the day, very deep voice.

Prothonotary warbles much in evidence, with notable call. Saw many dozens of them, often up close. Great crested flycatcher, several seen. Red-headed woodpecker. Red shouldered hawk, heard not seen. Red eyed vireo in Billy's Island area. Lining the

waterway is Spatterdock, a floating yellow "lily", *Nuphar advena*, with broad leaves emergent from water. Mixed with this but less frequent is White waterlily, Fragrant white waterlily, *Nymphaea odorata*, with more oval floating leaves that do not emerge from water. The common fern is chain fern, *Woodwardia virginica*. Of some interest is the climbing heath, which is a vine that runs under the bark on cypress and then emerges, to form a bush. Palmetto. Tupelo. *Nyssa ogeche*. Ogeche lime. (make a fruit that suggests a lime in color and shape). Various other plants noted. On the way back to Valdosta, stopped roadside outside of Fargo. Pitcher plants, *Sarracenia minor*. Also here sundew, *Drosera intermedia*. A nice large pink orchid, leafy stemmed.

The detailed record of this trip is online: Rolston Trail Log 1990 - 1994 Online at <http://hdl.handle.net/10217/39096>

Union College. Schenectady, NY. May 16, 93. Visiting professor. Hike at Plotterkill reserve with Paul Genest, philosophy department Union College. "Kill" through Dutch country here means "creek." Catskills means "cat creek," the reference being to pumas. The New York Mountains are the ABC's, Adirondack's, Berkshires, and Catskills. The Adirondack Park is two and a half times the size of Yellowstone, contains state-designated wilderness, and ninety percent of the wilderness in the Northeast. Wolf Hollow with Carl George, Union College. We first went out to his home, a geodesic dome on the top of a hill/mountain.

May 22, 93. Canoeing with Carl George on Canada Lake in Adirondacks. He has taught biology here 25 years. Drove n.w. up the Mohawk River, which is a canal with locks here. Through Amsterdam, thence to Johnstown, and then to Caroga Lake and to Canada Lake. Put canoes in here and canoed across the lake and down what was once Sprite Creek, now a flooded arm of the lake, about 4-5 miles, 10 miles roundtrip. Headwinds somewhat going down, and rain coming back for a while, then calm. Then a wind came up just as we tried to cross the open water of the lake. There were whitecaps on the lake and we had to head the canoe into the waves and paddle rather strongly to get across, also avoiding getting the canoe parallel to the waves, lest it get water in it, which could add up to being swamped. Afterward it became quite calm.

Adirondacks means "land of the bark eaters." Mohawk means "man eaters," since they were cannibals; there are lots of references to Mohawks eating people, and not apparently for ceremonial reasons. On the water. pondweed, an aggressive introduced one, that Carl George has had to organize parties each year to get it out of the pond. Drove through a shrine to a Jesuit missionary who has been canonized, Isaac Jogues. This is the Auriesville shrine. Beaver swimming in water in lake. Saw a couple of the spawning grounds, or nests, of the felfish, *Semotilus corporalis*, on the way back. These are remarkable underwater piles of gravel carried there in the mouth of the fish to form lodging places for the eggs and young when they spawn. *Panax trifolius*, Dwarf

ginseng, which Carl George had not seen before and the best plant of the day. Lots of plants recognized. Good birding.

May 29, Mohunk Preserve, with Carl George and Paul Genest. The nearby town is New Paltz. These are the Shawangunk Mountains. The Catskills are nearby. There is an enormous Mohunk Mountain House, a grand hotel for 500 people on the top of the mountains, with a glacial lake. Walked up to Sky Top, a tower on the rolling top, rather windy, nice view of Catskills and lower lying farmland, though on the whole rather forested. Six wild turkeys. The lake has no inlet or outlet, but was gouged out along a fault line by the glaciers; these are called sky lakes through here. There are six of them. A fisher reintroduction has succeeded. *Cypripedium acaule*, Pink Ladyslipper Orchid. One plant with two fine blossoms. Saw a good many chestnuts, still sprouting from the roots of the trees. The Chestnut blight came through here in 1913-1915. Union College has a set of the original Audubon prints, a big folio edition in which there are 435 prints. The original subscription was only 150 or so.

The detailed record of these trips is online: Rolston Trail Log – 1990 – 1994. Online at: <http://hdl.handle.net/10217/39096>

1994

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Published in electronic format by Columbia University Press Online Books, 1997.

Chapters 6 and 7, translated into German: "Eine Ethik für den gesamten Pflanzen Gedanken über den Eigenwert der Natur," *Natur und Kultur: Transdisziplinäre Zeitschrift für ökologische Nachhaltigkeit* 7(no. 2, 2006):24-40.

Placed in archives. one-third of a box of research materials, drafts, proofs, verifications. This one-third box of materials is included in Box 2 of 2 of the book materials for the book *Environmental Ethics*, 1988. See there.

1994. "Creation: God and Endangered Species." In Ke Chung Kim and Robert D. Weaver, eds., ***Biodiversity and Landscape*** (New York: Cambridge University Press, 1994), pages 47-60. Reprinted in Lawrence S. Hamilton, ed., ***Ethics, Religion and Biodiversity*** (Cambridge, England: The White Horse Press, 1993), pages 40-64.

Electronically on website, Ecospherics International, Inc., Lanark, Ontario, Canada.
<http://www.ecospherics.net>. Ted Mosquin, editor.

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1994. "Order and Disorder in Nature, Science, and Religion." Pages 1-14 in George W. Shields and Mark Shale, eds., ***Science, Technology and Religious Ideas: Proceedings of the Institute for Liberal Studies***, vol. 4 (Frankfort, KY: Institute for Liberal Studies, Kentucky State University, 1994). Keynote address at Institute for Liberal Studies, Conference on Science, Technology, and Religious Ideas, Kentucky State University, April 2-3, 1993.

1994. "People, Population, Prosperity, and Place." In Noel J. Brown and Pierre Quibler, eds., ***Ethics and Agenda 21: Moral Implications of a Global Consensus*** (New York: United Nations Publications, United Nations Environment Programme, 1994), pages 35-38. Ethical evaluation of the UN strategy document from the United Nations Conference on Environment and Development (Rio Earth Summit).

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1994. Bob Marshall Wilderness Trip. July 18-27, 1994. Left Ft. Collins and drove hard all day, up I-25, Casper, joining I-90, to Sheridan, then Billings, Bozeman, Butte, and Missoula. Stayed at Holiday Inn, where I had spoken for the Watchable Wildlife Conference a couple years back. Outfitter: Smoke Elser. Left on trail ride from an outfitters camp near Holland Lake. Steady climb and over Pendant Pass (where you actually enter the Bob Marshall Wilderness), then dropped down. Swan Range. Big Salmon Creek. Camped in vicinity of Barrier Falls in a slide area. Very large larch (tamarack) trees. Reached upper end of Big Salmon Lake, then rode by the lake, about 5 miles long, one mile wide. Rode on down to the South Fork (of the Flathead River), the main drainage of the Bob Marshalls, then down the South Fork, through majestic ponderosa pine savannah flats. Rode by Murphy Flat.

Camped at White River Flats. We rode up the White River, first due east, then turning to follow the main stem north. Climbed and rode over Larch Hill Pass, We are now on the Continental Divide. Continental Divide Trail. We leave the Flathead National Forest here. The east side is the Lewis and Clark National Forest. Sun River Game Preserve, no longer hunted. Marvelous ride under the Chinese Wall. Dramatic camp site, right under the wall, and open enough for grand visibility. We rode down Burnt Creek. The drainage here becomes the West Fork of the Sun. Passed Indian Point Ranger Station. Camped at Reef Creek. We rode out to Benchmark. Total ride, about 100 miles. Van ride back to Missoula. Drive home. In the early dawn, I had to swerve to avoid hitting two large bull elk on the Interstate. Drove through Idaho. Butte, Idaho Falls, Pocatello. To Fort Collins.

The detailed record for this trip is online: Rolston – Trail Log 1990 – 1994
<http://hdl.handle.net/10217/39096>

1994. August 5. Field Trip, American Fern Society. Preceding the American Institute of Biological Sciences, Knoxville, TN. Led by Dr. A. Murray Evans, emeritus from the

University of Tennessee, whose specialty is ferns. Drove to Carver's Gap. *Isoetes carolinianum*. Quillwort. Shortly up the trail towards Round Bald, then off 75 yards toward the N.C. side, in a seep. You wouldn't know it wasn't a grass or sedge, if you weren't looking for it. The balds are said by some to go all the way back to the Pleistocene and to have been maintained by various grazing animals, many of them now extinct here, such as bison, caribou. Caribou were here when Columbus arrived. Fire is not much of a factor in these mountains above 5,000 feet; it is usually too wet to burn. The forests and balds seem to burn not more than once every hundred years or more. Lightning does strike the balds all the time, and often makes a crater.

Various ferns seen. Walked to Engine gap, and then went down into the woods, a quarter of a mile below the gap.

August 6. Moss trip to Tellico River area, Cherokee National Forest. Trip leader Kenneth D. McFarland, instructor at University of Tennessee botany dept. Also on the trip Lewis Anderson, formerly of Duke and co-author of *Mosses of Eastern North America*, William Buck, Malcolm Sargeant, Jeff Duckett, U.K. in London, does work on ultrastructure of mosses, Harvey Miller of Florida and University of Miami, Ohio. Ray Stotler and Barbara Crandall-Stotler. David Smith, who is the current bryologist at UT.

We went to the general area of Bald River Falls. Site 1 on Laurel Creek, not all that far from Bald River Falls, marked on Cherokee National Forest map. Site 2, to Grassy Gap on route 165 and on beyond to Falls Branch Trail, and about a half mile in to a good falls, marked on map. Site 3, on over in North Carolina, Nantahala National Forest, along Santeetlah Creek. Various mosses seen. The sought-after item of the day was *Megaceros aenigmaticus*, a hornwort, found at the first site. It looks to me just like a thalloid liverwort.

August 7, field trip to Big South Fork National River and Recreation Area, just below Kentucky, nearest post office Oneida, area was Scott State Forest. The river is the (Big) South Fork of the Cumberland River, but we were on a tributary North White Oak Creek, and, for the morning foray, on a small tributary of that, nameless. Flakia? The thing. A thalloid stuff that nobody will claim, though many hold that it is some sort of lichen. Seen in several places. Copperhead snake. Lots of climbing fern, *Lygodium palmatum*, seen on the way in, with the fern people excited about it. Apparently they seldom see this elsewhere. Returned via the University of Tennessee arboretum at Oak Ridge for a 90th birthday celebration for A. J. Sharp, since about 1930 a famous bryologist the UT. Sharp has just published, with others, his long-awaited *Moss Flora of Mexico*. August 8, breakfast with Richard Andrus, *Sphagnum* expert, SUNY Binghamton.

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1995. Review of Franz M. Wuketits, ***Evolutionary Epistemology and Its Implications for Humankind*** (Albany: State University of New York Press, 1990) and Matthew H. Nitecki and Doris V. Nitecki, eds., ***Evolutionary Ethics*** (Albany: State University of New York Press, 1993), ***Zygon: Journal of Religion and Science*** 30(1995):513-517. Wuketits advocates an evolutionary epistemology, but also finds that human knowledge vastly transcends any found in biology. In the Niteckis' collection, evolutionary ethics is met mostly with philosophical skepticism. Is it pointless to consider arguments deceptively disguised as self-interest in defending authentic morality? Online at: <https://hdl.handle.net/10217/210739>

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University of Colorado, Western Water Policy Project, Discussion Series Paper No. 9, 1991.

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1995. Distinguished Visiting Professor, University of Stellenbosch, Stellenbosch, South Africa. July-August 1995. East Africa

East Africa: Flights Denver, New York (LaGuardia and JFK), London. Flight Nairobi, Kenya, overflight of Sahara desert and Lake Nasser. Main guide: Chris Michaelides, limping, once nearly killed by a python. East Africa conservation and natural history. Africa Evangelical Presbyterian Church. Karen Blixen Museum and home. Visit to United Nations Environment Programme (UNEP). University of Nairobi to meet Odera Oruka, professor of philosophy (later assassinated, run over by truck). Drive through River Street. Visit at East African Wildlife Society. Kenya Wildlife Services. Nairobi National Park. Presbyterian Church in East Africa, Kikuyu hospital, rural area north of Kikuyu, north of Nairobi. Stan Topple, friend from college days, is surgeon here. Church of the Torch and visit to elementary school. Aberdare Country Club, and game walks. Reticulated giraffe. Mt. Kenya Country Club. Mt. Kenya Safari Club. Many birds. Samburu Game Reserve. Lions. Leopard. Baboons. Crocodiles. Elephants crossing river. Oryx (large antelope). Sweetwaters Camp, a private game reserve, in the Laikipia area, not far from Mt. Kenya. Bushbaby. Serval.

Return to Nairobi, flight to Maasai Mara airstrip. Maasai Mara National Reserve. Ol-Choro-Orowa Conservation = Ol Choro Oiroua. Topi. Mother cheetah with four cubs. Wildebeest, Thomson's gazelles, Eland. Flight return to Nairobi.

Trip to Tanzania, trip to Arusha, Lake Manyara. Drive south, crazy border crossing, guide: new guide is Peter Neema. Drive to Lake Manyara, Rift Valley, and wildlife viewing there. Flamingoes. Serengeti Park. Olduvai Gorge. Ngorongoro Crater. Watched three lioness stalk and kill a zebra, over an hour, marvelous experience. Watched a black rhinoceros with a calf. Returned to Arusha, visiting a dispensary, a sort of mission hospital, a Roman Catholic order. Thence to Nairobi.

South Africa and Stellenbosch. July 6, Thursday. Flight to Johannesburg, South Africa. Met by main host: Johan Hattingh, Department of Philosophy, University of

Stellenbosch. Environmental conservation and natural history. Lecture at UNISA, the university name shortened from UNiversity of South Africa, Pretoria. Bush camp in Kruger National Park. Drove n.w. through the Transvaal. Cycads. Sand River Bush Camp. Jungle noises in the night. Veldt hike with guides with guns. Bakkie rides. Charged by an elephant in musth. Skujkuza. Wild dogs. Rolston led seminar for the Kruger Park staff. Rolston on multiple day jungle walk, Metsimetsi Trail ("trail" is a booked jungle adventure to fenced camps and various "hides" for watching animals), with Cleve Cheney. Wildlife walks. Rhino horn. Elephants spraying themselves. Sable antelope.

Stellenbosch. Return to Johannesburg and flight to Durban. Kearsley College, the site of the Environmental Education Association of South Africa (EEASA). Spoke at Environmental Education Association of South Africa. Drive to Eschowe, thence to Umfolozi Park. Jungle backpacking. Returned, picked up wife, Jane, and drive to St. Lucia for a flight over Richard's Bay, threatened by mining. Drive north to Cape Vidal. Prop plane commuter down the coast to Durban, then a jet from Durban to Port Elizabeth. Drive to Grahamstown, lectures at Rhodes University. Trip to Thomas Barnes Nature Reserve. Addo Elephant Park. Drive to Port Elizabeth, and flight to Cape Town. Drive to Stellenbosch, and got set up in the apartment for a month as Distinguished Visiting Professor at Stellenbosch University,

Drive to False Bay, Harold Porter Nature Reserve. Drive south and through The Strand, on False Bay, the bay east of Cape Town. Continued driving around the coastline to Gordon's Bay and Pringle Bay, Hangklip and Cape Hangklip. Fynbos area. Nesting colony of jackass penguins. Drove to Cape of Good Hope, Cape of Good Hope Nature Reserve. Bontebok. Lecture at University of Cape Town, seminar with graduate students. Hike in mountains out of Jonkershoek Nature Reserve. Rolston led wilderness workshop with Ian Player and other conservationists. Hiked up Witteberge mountain with Peter Blignaut and his wife, Jill. Cape Town and rode the cable car up Table Mountain. Rhodes Monument. University of the Western Cape, largely a colored institution. Cape Flats Nature Reserve. Flights to Johannesburg, London, New York (JFK), Pittsburgh, Denver.

The detailed record of these trips to East Africa and South Africa is online at: Rolston: Trail Log - 1995-1995 <http://hdl.handle.net/10217/39097>

1995. November 7-22, 1995. Slovenia. Conference on Conservation of Nature outside of Protected Areas, University of Ljubljana, By way of Finland and Washington.

Attended and gave keynote address at Conference. This address is published in English and Slovenian as "Nature, Culture, and Environmental Ethics / Narava, kultura in etika okolja." Pages 25-42 in Dusan Ogrin, ed., Varstvo narave zunaj zavarovanih

obmocij / The Conservation of Nature Outside Protected Areas. See publication details under 1996. Online at: "Narava, kultura in etika okolja," in Slovenian, <http://hdl.handle.net/10217/37202> In English: <http://hdl.handle.net/10217/37447>

Took trip through Slovenian (or Slovene) countryside, first north to the southern Alps, then south through karst topography and to the Adriatic Sea. Drove to Bled, via Kranj, with a marvelous church on an island in a scenic lake, also a castle overlooking the lake. Very scenic countryside. Rivers here are tributaries of the Danube. Drove south to karst topography at Skocjan, n.w. of Postojna. The region is called Karst, and karst topography takes its name from this region. There is one of the heaviest rainfalls in Europe and the limestone (and dolomite) rocks are honeycombed with tunnels and openings dissolved out by ground waters; much of the drainage is underground. Large sinks abound, some of them five or six hundred feet deep. Valleys containing streams often end abruptly where the streams plunge into underground tunnels. The collapsing rock leaves some very steep cliff walls. Harald Plachter, from Germany, a botanist, was good with the flora. The landscape architects with us knew the topography well.

Continuing, on to the Adriatic coast, of which Slovenia has only about 40 km. Croatia got most of the coastline. Visited Piran and Portoroz. Returned to Ljubljana. On the flight out, the southern Alps seen nicely from the air. Flew to Frankfurt, then to Helsinki.

External International Examiner, the "Opponent," at Ph.D. Thesis Defense, held at University of Helsinki, Finland. Thesis: The Varieties of Intrinsic Value in Nature, Leena Vilkkä. Flew to Washington DC. Visiting Distinguished Lecturer, "Ethics Gone Wild," American University, Washington, DC, McDowell Conference on Philosophy and Social Philosophy, Jeffrey Reiman, Coordinator. Return to Denver.

The detailed record of this trip is online: Rolston – Trail Log 1995 - 1997 Online at <http://hdl.handle.net/10217/39097>

1996

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Reprinted in Andrew Light and Holmes Rolston III, eds., ***Environmental Ethics: An Anthology*** (Oxford: Blackwell Publishers Ltd., 2003), pages 451-462. With reply by Robin Attfield, "Saving Nature, Feeding People, and Ethics," pages 463-471.

Reprinted in J. Baird Callicott and Clare Palmer, eds., ***Environmental Philosophy: Critical Concepts in the Environment*** (London: Routledge, 2005), vol. 4, pp. 23-40.

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Reprinted, translated into German as "Menschen Ernähren oder Natur Erhalten?" in ***Conceptus: Zeitschrift für philosophie*** 29(nr. 74, 1996):1-25, with reply, "Natur

Erhalten oder Menschen Ernähren?" ("Saving Nature or Feeding People?") by Robin Attfield (Philosophy, University of Wales), **Conceptus** 29:27-45.

Five critical articles responding to this paper are:

(1) Robin Attfield (Philosophy, University of Wales, Cardiff), "Saving Nature, Feeding People and Ethics," **Environmental Values** 7(1998):291-304.

(2) Andrew Brennan (Philosophy, University of Western Australia), "Poverty, Puritanism and Environmental Conflict," **Environmental Values** 7(1998):305-331.

(3) Ben A. Minteer (School of Natural Resources, University of Vermont), "No Experience Necessary? Foundationalism and the Retreat from Culture in Environmental Ethics," **Environmental Values** 7(1998):333-348.

Rolston's response to these three articles is "Saving Nature, Feeding People, and the Foundations of Ethics," **Environmental Values** 7(1998):349-357.

(4) Allan Carter, "Saving Nature and Feeding People," **Environmental Ethics** 26(2004):339-360.

(5) Hanna Siurua, "Nature above People: Rolston and 'Fortress' Conservation in the South," **Ethics and the Environment** 11(no. 1, 2006):71-96.

1996. "Immunity in Natural History," **Perspectives in Biology and Medicine** (University of Chicago Press) 39(1996):353-372. Nobel Conference XXVIII Lecture at Gustavus Adolphus College, October 1992.

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Protected Areas, Ljubljana, Slovenia, November 1995. Online at: "Narava, kultura in etika okolja," in Slovenian, <http://hdl.handle.net/10217/37202> In English: <http://hdl.handle.net/10217/37447>

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1996. "Nature, Spirit, and Land Management." Pages 17-24 in Beverly L. Driver, Daniel Dustin, Tony Baltic, Gary Eisner, and George Peterson, eds., ***Nature and the Human Spirit: Toward an Expanded Land Management Ethic*** (State College, PA: Venture Publishing Co., 1996). Anthology published by a U.S. Forest Service task force.

1996. "Science, Advocacy, Human and Environmental Health," ***The Science of the Total Environment*** 184(1996):51-56. Article prepared for the International Society of Environmental Epidemiology (ISEE) and World Health Organization (WHO) and in theme issue on "Ethical and Philosophical Issues in Environmental Epidemiology.

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1996. "The Bible and Ecology," ***Interpretation: Journal of Bible and Theology*** 50(1996):16-26. Also translated into Japanese.

1996. "Wolves Resuming their Rightful Place in our Ecosystem," ***Fort Collins Coloradoan***, March 24, 1996. Page E3. Commentary on seeing the Yellowstone wolves in the wild.

1996. Review, Robert R. Gottfried, ***Economics, Ecology, and the Roots of Western Faith: Perspectives from the Garden*** (Lanham, MD: Rowman and Littlefield, 1995) and Robert Booth Fowler, ***The Greening of Protestant Thought*** (Chapel Hill, NC: University of North Carolina Press, 1995) ***Theology Today*** 53(1996):418-422.

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1996. "Filozofia ekologiczna [Ecological Philosophy]" by Stefan Zabieglik, with Rolston notice, ***Pismo PG***, journal published by the Polytechnical University of Gdansk (= Danzig), Poland. Nr. 2/3 (22-23), 1996, pp. 64-68.

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Ethics: Values in and Duties to the Natural World (Philadelphia: Temple University Press, 1988).

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1996. "Environmental Ethics: Some Challenges for Christians." Reprinted in ***Church and Society***, July/August 1996, pages 37-50. Originally in Harlan Beckley, ed., ***The Annual: Society of Christian Ethics*** (Washington: Georgetown University Press, 1993), pages 163-186.

1996. April 12-May 6, 1996. Sweden, Finland, Oxford, Denmark, Estonia, Romania trip. Bits of encounter with nature here and there; a walk in the woods at Odense with Finn Arler, also a walk in the woods at Aarhus, ending in walk by the sea. Wood anemone, *Anemone nemorosa* is in evidence everywhere; in deciduous woods it could blanket the forest floor, quite spectacular. Lots of beech forests in Denmark. In Romania, a weekend in the Carpathian mountains, lovely scenery, but rather degraded and overused woods. Hosted by Pompiliu Diplan, a graduate student in philosophy at the University of Bucharest, and his wife, and infant child. Nice spring green against the conifers. Some nice flowering trees, looked like pears, maybe some apple. One hedgehog killed roadside. A couple hawks. Tried to see the Danube and get to the Black Sea, to no avail. They kept saying it's not worth going.

June 8-18, 1996. Lusto Finland and Estonia. Aesthetics of Forests conference at Lusto, with a Finnish Forest Museum, near Punkaharju, on an esker with lakes all around. Some hike in the woods in the course of the conference, but there was not as much nature interpretation as on the 1994 trip. Lovely woods.

June 15-17, 1996. Weekend in Estonia. Stayed in Tallin but on Sunday we were taken out in the country and I got a couple strolls in the woods. Many familiar genera, though

I often didn't know the species and some things I didn't know at all. Generally flat country with fewer lakes than Finland, and still lots of forests across the countryside.

Minnesota Wolves. March 28-April 3, 1996. Ely, Minnesota, and the wolves, via Milwaukee and Marquette University.

Flew to Milwaukee, spoke at Marquette University. Flew to Duluth and rented car, drove to Ely. Duluth has broken snow cover, but by the time I got to Ely there was solid snow pack, often 3 feet or so. Visited International Wolf Center in the morning, wolf flight in the afternoon. Host: Paul Hansen, works partly with the Mech wolf project, partly teaches at Vermillion Community College. Susan Meisner, Vermillion Community College; she is in charge of environmental studies. Spent the morning at the wolf center; there are four wolves in a pen outside a large picture window. Interpreter's talk. There are twelve wolf packs on which they have collars, about one animal per pack. There are about 2,000 wolves in Minnesota.

Clear but windy, and we took the wolf flight in the afternoon, but it was too windy to find the wolves. They bolt two antennae on the struts of the wings, one on either side of the plane, and by switching from left to right antennas, which are pointed a little differently, they can get something of a directional fix. Then they circle around in tighter and tighter circle until they see the wolves--about half of the time they find them. But the winds today prevented circling much.

Drove down to Lake Isabella area and showshoed around a campground area and further in, looking for a reported wolf kill. Eventually found it, a deer carcass. By now, since a snow two days before, the wolf tracks are obliterated. Lecture at the college. David Tomeo is host, former Outward Bound instructor, now teaching at the college.

Up early for another wolf flight, and this time we found them. I saw two grey, or brownish, wolves toward the edge of an open clearing, making a single track in the snow. I got them in binoculars for about ten seconds, nice view, and they went into the woods at the edge. Clear day, good sun, and great sight. We circled around several times to try to pick them up in the woods, but could not find them. The wolves were from the Birch pack, and were seen n.w. of Crocket Lake. Signals were from female adult 257, male pup 567, male pup 573, and we saw the female and one pup, they were not sure which.

Returned for radio talk, interviewed by Mike Hillman, Station WELY. Lecture in Leo (Luke) Lucas, Wilderness Management class, 1,00-3.00 p.m. Return to Duluth and flew home.

The detail of this trip is online: Trail Log 1995 – 1997 <http://hdl.handle.net/10217/39097>

1996. Feb. 14-20, 1996. Grand Canyon, hike to Phantom Ranch, and Petrified Forest

Flew to Phoenix. Rented car. Drove to Flagstaff, nice drive up, but arrived in dark. Marcus Ford, my host, took me out to Walnut Canyon, a national monument, with Indian dwellings in the canyon rocks. Spoke at Northern Arizona University. Drove to Petrified Forest, stopping enroute to see the Meteor Crater. World's first proven and world's largest evident meteor crater. On to Petrified Forest and nice day there, with a few walks. Drove out through the Painted Desert, which is now incorporated into the Petrified Forest National Park.

Drove to Grand Canyon, driving around through the East Rim Drive. Stopped at Lipan Point, with a nice view of Hance Rapids at a distance in the river. I found I had a chance for Phantom Ranch, if there were no-shows. Next day, waited from 6.00 a.m. onward in the dark, and got the first of only two no shows. Caught shuttle around to Yaki Point, to go down the South Kaibab Trail. On the trail about 8.00. Steady descent. Nice day, not hot, but comfortable, in short sleeves. Nice lighting. Reached Panorama Point. Descended to River, crossed over the Black Bridge, reached Phantom Ranch. Total descent: 7260 ft.

Next day, walked out, Bright Angel Trail. Breakfast was at 5.30, and left at 6.15, not moving very fast because it was still too dark to see much but the outline of the white sandy trail. A little more light by the time I went over the Silver Bridge, and soon enough plenty of light to see. Trail goes along the river about a mile or so, then you climb. Relentless climb. But it is a quite good graded trail, never really the virtual stairsteps that the Kaibab trail has coming down. Passed Indian Springs. Two tunnels, or, better, rock cuts, are near the top. Somewhat cloudy, though the trail is in the shadow of the canyon walls surprisingly so that it was really 11.30 before I had my head in any sunshine. There is good water at Indian Springs, and, in summer, water supplies are put in a couple other spots. Got out about 12.10, slightly less than 6 hours out. Mileage out 9.3. Total 18.3 miles. Next day, drove back to Phoenix and flew home.

The detailed record of this trip is online: Rolston – Trail Log1995 – 1997
<http://hdl.handle.net/10217/39097>

1997

1997. "Ecological Spirituality," *American Journal of Theology and Philosophy* 18(1997)59-64.

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1997. "Nature, the Genesis of Value, and Human Understanding," *Environmental Values* 6(1997):361-364. Reply to a criticism by Emyr Vaughan Thomas, "Rolston, Naturogenic Value and Genuine Biocentrism," *Environmental Values* 6(1007):355-360.

1997. "Our Duties to Endangered Species," invited box essay in Gary K. Meffe and C. Ronald Carroll, eds., *Principles of Conservation Biology* (Sunderland, MA: Sinauer and Associates, 1994), pages 30-31. 2nd edition, 1997, pages 35-36. 3rd edition, Martha J. Groom, Gary K. Meffee, and C. Ronald Carroll, 2006, pages 116-117.

1997. "Siberia: Beautiful, Bleak, Full of Uncertainty," *Fort Collins Coloradoan*, July 26, 1997, pages D8, D7. Report on a trip to Siberia and Lake Baikal, with a focus on conservation biology, led by Russian scientists, and sponsored by the American Association for the Advancement of Science, June 1997. Online at: <http://hdl.handle.net/10217/37334>

1997. Siberia and Lake Baikal. June 15-29, 1997. Flights Denver, San Francisco, Aeroflot, Anchorage, over Bering Strait to Khabarovsk. Board Trans-Siberian railway, the longest train journey in the world (across eight time zones), about 1/4 of the way around the globe. Main host: Victor Kuzevanov, Director of the Botanic Garden of Irkutsk State University, Irkutsk. Train went through a tunnel under the Amur River. Birobidzhan, a town, little developed, the capital of the so-called Jewish Autonomous Republic. Arkhara. Magdagachi, no paved roads. permafrost country. (Y)Erofey Pavlovich. Amazar. Mogocha. Karymkaya. Darasun. Chita. Mogzon. Khilok. Petrovsky Zavod. Ulan Ude, with a famous Lenin head, and also the main Tibetan Buddhist monastery in Russia. Train alongside Lake Baikal. Reached Irkutsk in the middle of the night. Second host: Elena I. Kossovich, botany, Irkutsk State University.

Lake Baikal is over 25 million years old, more than a mile deep, and 1/5 of the Earth's fresh water is here, more water than in all of North America's Great Lakes combined. Boarded the boat, the M/V Zaisan. Walk ashore at Peschanya Bay. Sagan-Zaba, in Pribaikalsky National Park, with petroglyphs. Visit to Borokchin Island. Visit to the island of Olkhon, and a fishing village, Khurzhir. Visit to the farm of a Buryat farmer, with a fish fry and cookout by the lake, and barbecued sheep. Uskany Islands to watch Baikal seals, a freshwater seal. Visit to wet taiga and hot pools. Visit to Posol'skoye, village. Hiking along Kadilnaya Bay. Extensive lists of plants seen and identified. Fossil stromatolites. Flight Irkutsk to Khabarovsk. Flights to Anchorage, San Francisco, Denver. The detail record of this trip is online at: Rolston – Trail Log 1995 – 1997: online at <http://hdl.handle.net/10217/39097>

1997. Yellowstone and Scapegoat Wilderness, Montana. July 26 - August 7, 1997.

With Bill Forbes, cousin, drive to DuBois, Wyoming. Split Rock, which recalls the Pony Express and Buffalo Bill's riding. Yellowstone. Backpacking in Grizzly Country. Leaders: Michael Bartley, a student of mine at CSU, and Marla Darby. Climbs and backcountry camps, two nights. Flooding at CSU and at home in Fort Collins. Spoke on phone with a *New York Times* reporter.

Drive to Missoula, reached North Fork (of the Blackfoot) Trailhead, where we joined Smoke Elser, main outfitter, and the packing. Smoke has been packing 40 years in the Bob, cumulatively 22 years of nights spent in the out-of-doors. Riders include Orville Daniels, retired chief of Region 1, US Forest Service, which includes fourteen forests in Montana, Idaho, Dakotas. Riding in the Canyon Creek Fire, burned 247,000 acres in September and October 1988, the year of the Yellowstone fires, and the largest fire in the history of Montana. The decision to endorse the let burn policy was made by Orville Daniels. Rode up Hobnail Tom Trail. Camped at Sarto Creek. Rode over to the next basin, Green Fork, of Straight Creek, flowing north, and hiked up Scapegoat Mountain, at least to the plateau beneath the summit. Examined the remains of a pre-World War II military plane that had crashed in 1938. Satellites seen in the sky, quite bright. Halfmoon Peak. Ride out, two days. Total ride about 65 miles. Shuttle to Missoula, and long drive home.

The detailed record of this trip is online: Rolston – Trail Log – 1995 -1997
<http://hdl.handle.net/10217/39097>

1997. Nordgren, Anders, ed., "Environmental Science and Environmental Advocacy," in ***Science, Ethics, Sustainability: The Responsibility of Science in Attaining Sustainable Development***, Centre for Research Ethics, University of Uppsala, Sweden. ***Acta Universitatis Upsaliensis, Studies in Bioethics and Research Ethics*** 2 (Uppsala, Sweden, Centre for Research Ethics, 1997), pp. 137-153.

Presented in various versions:

--1991. Once a presentation as keynote speaker, "Science and Advocacy," American Fisheries Society, Conference on Science and Advocacy in Fisheries Management, Salishan Lodge, Gleneden Beach, Oregon, January 29-February 2, 1991. Interviewed by Joe Crane on National Public Radio for radio broadcast February 2, 1991.

--1993. Once a presentation: "Environmental Science and Environmental Ethics," in Symposium on "The Scientific Foundations of Environmental Ethics," American Association for the Advancement of Science, Boston, February 11-16, 1993.

--1998. Presented at All India Institute of Medical Sciences, New Delhi, January 1998, and they requested copy to publish in conference proceedings. Publication unknown. Other versions in other Indian universities on this trip.

--2000. "Environmental Science and Environmental Advocacy," **Reflections: Newsletter of the Program for Ethics, Science, and the Environment**, Oregon State University. Special Issue No. 4, April 2000, pp. 2-3.

--2000. Lecture, "Environmental Science and Environmental Advocacy," at Vrije Universiteit, Amsterdam (Free University, Amsterdam), October 25, 2000. Sponsors: The Council for the Humanities of the Netherlands Organisation for Scientific Research (NWO) and the Board of the Vrije Universiteit.

1997. Review of Tom Hayden, **The Lost Gospel of the Earth** (San Francisco: Sierra Club Books, 1996), in **The Presbyterian Outlook** 179(no. 8, March 3, 1997):9

1997. Review, "Reasons for Loving Nature," review of Stephen R. Kellert, **The Value of Life: Biological Diversity and Human Society** (Washington, DC: Island Press, 1996) in **Technology Review** (Massachusetts Institutes of Technology) 100 (no 2, Feb./Mar. 1997):70-71.

1997. Review of Bryan G. Norton, Michael Hutchins, Elizabeth F. Stevens, and Terry L. Maple, eds., **Ethics on the Ark: Zoos, Animal Welfare, and Wildlife Conservation** (Washington, DC: Smithsonian Institution Press, 1995) for **Journal of Wildlife Management** 61(1997):974-975.

1997. Review of Frederick Ferré, **Being and Value: Toward a Constructive Postmodern Metaphysics** (Albany: State University of New York Press, 1996), in **Theology Today** 54(1997):420-424.

1997. Review of Michael S. Northcott, **The Environment and Christian Ethics** (Cambridge: Cambridge University Press, 1996), in **Theology Today** 54(1997/98):549-550.

Reprinted in **Science and Religion Reviews** (UK).

1997. "Natural Thinker," Profile of Holmes Rolston by Steve Lipsher, **The Denver Post, Empire: Magazine of the West**. June 8, 1997. Feature article, cover story.

1997. "Environmental Ethics: Author Shares His Thoughts on Nature," and "The Study of Environmental Ethics," by Stephanie Porter-Nichols. Profile of Holmes Rolston, with extensive citations. **Smyth County News and Messenger**, Wytheville, Virginia, March

29, 1997, pp. 38-39, pp. 45-46. Profile in part recalling Rolston's former residence in Southwest Virginia.

1997. Gifford Lectures, ***Genes, Genesis and God***, delivered at University of Edinburgh, November 1997. Published as ***Genes, Genesis and God: Values and their Origins in Natural and Human History*** (New York: Cambridge University Press, 1999).

Annotated lecture notes for the ten lectures.

Related event:

--Seminar, "A Prolific Earth: Genetic and Theological Explanations," jointly with R. J. Berry, Department of Genetics, University College London, sponsored by University of Glasgow and University of Edinburgh. Held at New College, University of Edinburgh, November 12, 1997. Neil Spurway, Physiology, University of Glasgow, Coordinator.

Spinoff lectures in this period:

--"Technology vs. Nature: What Is Natural?" University of Aberdeen, November 19, 1997, published as "Technology versus Nature: What is Natural" in ***CPTS Ends and Means: Journal of the University of Aberdeen Centre for Philosophy, Technology & Society*** 2(no. 2, Spring 1998):3-14.

--"Intrinsic Values Shared versus Selfish Genes," University of Lancaster, Nov. 15, 1997. Essentially drawn from Chapter 2 of ***Genes, Genesis and God***, pp. 38-50.

--"Values in Nature: Intrinsic Values Shared versus Selfish Genes," University of Manchester, Manchester, UK, Department of Philosophy, November 26, 1997. Timothy D. J. Chappell and KeeKok Lee, Coordinators.

Further spinoff lectures:

--"Anthropic Biology," Invited paper, American Academy of Religion, 2001 Annual Meeting, Denver. November 18, 2001. Thomas P. Kasulis, Religion, Ohio State University, and Edith Wyschogrod, Rice University, Co-ordinators.

--"Genes, Values, and Ethics," John Wesley Powell Distinguished Memorial Lecture, American Association for the Advancement of Science, Southwestern and Rocky Mountain Division, Seventy Fourth Annual Meeting, Grand Junction, Colorado, 17-21 May, 1998. Donald J. Nash, Conference Coordinator. Expanded from "Intrinsic Values

Shared versus Selfish Genes," University of Lancaster, Nov. 15, 1997. Essentially drawn from Chapter 2 and 6 of ***Genes, Genesis and God***, pp. 38-50.

--McNair Memorial Distinguished Lecture, "Evolutionary History and Divine Presence," University of North Carolina, Chapel Hill, Chancellor's Established Lectures, September 16, 1998, with related presentations, September 17, 1998, to the Carolina Environmental Program, William Glaze, Director, and the School of Natural Resources, Richard Andrews, Coordinator.

1997. "Ecology: A Primer for Christian Ethics," prepared for Russell Morris, Florida State University, for ***The Annual: Society of Christian Ethics***, at his request. But the theme edition got rejected and publication failed. Published with minor revisions, ten years later, 2007, in ***Journal of Catholic Social Thought***.

1997. "Can and Ought We to Follow Nature?" Reprinted, in German translation, as "Können und sollen wir der Natur folgen?", in Dieter Birnbacher, ed., ***Ökophilosophie*** (Ditzingen,) Germany: Philipp Reclam jun. Stuttgart, Reclams Universal-Bibliothek, 1997), pp. 242-285. Originally in ***Environmental Ethics*** 1(1979):7-30.

1997. "Values in Nature." Reprinted, translated into Finnish in Markku Oksanen and Marjo Rauhala-Hayes, eds., ***Ympäristöfilosofia: Kirjoituksia ympäristönsuojelun eettisistä perusteista (Environmental Philosophy: Critical Sources in Environmental Theory and Ethics)*** (Helsinki: Gaudeamus, Oy Yliopistokustannus, Finnish University Press, 1997), pages 205-224. Originally in ***Environmental Ethics*** 3(1981):113-128.

1997. ***Science and Religion--A Critical Survey***. Reissued: Ft. Worth, TX: Harcourt Brace College Publishers, 1997. Originally: New York: Random House, Temple University Press, 1987. Also McGraw-Hill, 1989.

1997. "Wildlife and Wildlands: A Christian Perspective." Reprinted, translated into Chinese in Dieter T. Hessel, ed., ***Shengtai gongyi: Dui dadi fanpuide xinyang fanxing*** (Taiwan: Digiuri Chubanshe, 1997), pp. 233-256. Translated by Text Committee of the Taiwan Ecological Theology Center. ISBN 0-8006-2532-3. Originally in: ***Church and Society*** 80 (no. 4, March/April 1990):16-40. Reprinted in ***After Nature's Revolt: Eco-justice and Theology***, Dieter T. Hessel, ed., (Minneapolis: Fortress Press, 1992), pages 122-143.

1997. "Value in Nature and the Nature of Value." Reprinted, translated into German, "Werte in der Natur und die Natur der Werte," in Angelika Krebs, ed., **Naturethik. Grundtexte der gegenwärtigen tier- und ökoethischen Diskussion (Ethics of Nature: Fundamental Texts Discussing Contemporary Animal and Ecological Ethics)** (Frankfurt: Suhrkamp, 1997), pages 247-270. Originally in Robin Attfield and Andrew Belsey, eds., **Philosophy and the Natural Environment** (Cambridge: Cambridge University Press, 1994), pages 13-30. Royal Institute of Philosophy, Annual Supplement Volume.

1997. "Value in Nature and the Nature of Value." Reprinted, translated into Danish, "Vaerdi i naturen og vaerdinens natur," in: Merte Sørensen, Finn Arler and Martin Ishøj, eds., **Miljø og etik (Environment and Ethics)** (Aarhus, Denmark: NSI Press, Nordisk Sommeruniversitet, 1997), pp. 17-38. Originally in Robin Attfield and Andrew Belsey, eds., **Philosophy and the Natural Environment** (Cambridge: Cambridge University Press, 1994), pages 13-30. Royal Institute of Philosophy, Annual Supplement Volume.

1997. "Feeding People versus Saving Nature." Reprinted in Roger S. Gottlieb, ed., **The Ecological Community** (London: Routledge, 1997), pages 208-225. Originally in William Aiken and Hugh LaFollette, eds., **World Hunger and Morality**, 2nd ed. (Englewood Cliffs, NJ: Prentice-Hall, 1996), pages 248-267.

1997. "Feeding People versus Saving Nature." Reprinted in Hugh LaFollette, ed., **Ethics in Practice: An Anthology** (Oxford: Blackwell Publishers, Ltd., 1997), pages 619-630. Originally in William Aiken and Hugh LaFollette, eds., **World Hunger and Morality**, 2nd ed. (Englewood Cliffs, NJ: Prentice-Hall, 1996), pages 248-267. Later, reprinted in Hugh LaFollette, ed., **Ethics in Practice: An Anthology**, 4th edition (Oxford: Wiley-Blackwell, Ltd, 2014), pages 583-591.

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1998. "Aesthetic Experience in Forests," ***Journal of Aesthetics and Art Criticism*** 56(1998):157-166. Invited address at The Aesthetics of the Forest, Second International Conference on Landscape Aesthetics, Lusto, Punkaharju, Finland, June 10-13, 1996.

Reprinted in Peter C. List, ed., ***Environmental Ethics and Forestry: A Reader*** (Philadelphia: Temple University Press, 2000), pages 80-92.

Reprinted in Allen Carlson and Arnold Berleant, eds., ***The Aesthetics of Natural Environments*** (Peterborough, Ontario: Broadview Press, 2004), pages 182-196.

Reprinted, translated into Finnish, in Yrjö Sepänmaa, ed. ***Metsään Mieleni*** (Helsinki: Maahenski, 2003), pages 31-47.

1998. "Down to Earth: Persons in Place in Natural History." Pages 285-296 in Andrew Light and Jonathan M. Smith, eds., ***Philosophy and Geography III: Philosophies of Place***. Lanham, MD: Roman and Littlefield, 1998.

1998. "Endangered Species." Pages 154-156 in Marc Bekoff with Carron A. Meaney, eds., ***Encyclopedia of Animal Rights and Animal Welfare***. Westport, CT: Greenwood Press, 1998. 2nd edition, 2009.

1998. "Wild Animals, Duties to." Pages 362-364 in Marc Bekoff with Carron A. Meaney, eds., ***Encyclopedia of Animal Rights and Animal Welfare***. Westport, CT: Greenwood Press, 1998. 2nd edition, 2009.

1998. "Evolutionary History and Divine Presence," **Theology Today** (Princeton) 55(1998):415-434.

1998. "Humans Valuing the Natural Environment," in Barbara MacKinnon, **Ethics: Theory and Contemporary Issues**, 2nd ed., (Belmont, CA: Wadsworth Publishing Co., 1998), pages 331-341. 3rd ed, 2001, pages 372-382. From Rolston, **Environmental Ethics**, chapter 1.

1998. "Landscape from Eighteenth Century to the Present." Volume 3, pages 93-99 in Michael Kelly, ed., **Encyclopedia of Aesthetics**. New York: Oxford University Press, 1998. Online at: <http://hdl.handle.net/10217/89530>. Revised edition in 2014, see 2012 for that text and correspondence.

1998. "Nepal: Sublime Surrounds Simple Life," **Fort Collins Coloradoan**, March 28, 1998, pages D10, D9. Report on trip to Nepal, environmental conservation, biodiversity conservation, and human development, January-February, 1998. Online at: <http://hdl.handle.net/10217/37329>

1998. India and Nepal. January 1 - February 12, 1998. Flights Denver, Los Angeles, Hong Kong, New Delhi. 2 days in Hong Kong with confusion about visa. Tours in and around Hong Kong. Flight from Delhi to Chennai (Madras). Main host: Jayapaul Azariah, professor and head, Dept. of Zoology, University of Madras. Rolston is giving a series of guest lectures in a dozen places. Overnight bus to Salem. Night ride on train to Bangalore. National Law School of India University. Flight from Bangalore to Pune.

Seminar at National Chemical Laboratory. Drive to Ahmednagar. International Workshop Cum Seminar: Environment, Medical Ethics, and Biodiversity. Drove to Aurangabad, and to Ajanta Caves (temples carved into rocks). Flight from Pune to Delhi. Conference: All India Institute of Medical Sciences.

Nepal. Flight to Kathmandu, Nepal. Days there. Flight to Pokhara, on a 19 seater plane. Bus to start of trek. Nepalese people in living antiquity. Machhapuchhare at daybreak. Annapurna range and its peaks. Gandruk (Gandrung, on maps). Annapurna South, 7,273 meters. Annapurna II, 7,937 meters, the second highest in the range. Annapurna III, 7,555 meters. Annapurna IV, 7,525 meters. Return to Sanctuary Lodge. Trek to Dhampus. Trip to Royal Chitwan National Park. Elephant rides searching for tigers. Return charter flight to Kathmandu.

Everest trek. Guide: Padam Jurind. Nepali name: Sagamartha. Three days of cancelled flights. Flight to Lukla in Russian helicopter, MI-17, 12 passengers, and cargo all strapped in the middle, 50 minutes, landed on a pad.. Russian pilot and Russian engineer. Started hiking with porters. Night at Phakding. Hike to Namche Bazaar, with views of Everest along the way. Wild goats, tahr. Yak. Hike to Park Headquarters. Everest in excellent view. Hike back to Lukla. Flight back to Kathmandu. Everest overflight, stunning mountains, roof of the world. Flight to Bhairawah, car to Tansen hospital and missionary friends, Tad and Jane Gilmore. 400 would be patients lined up waiting to get in. Difficult corruption in government. Return to Bhairawah, Lumbini, the birthplace of Buddha, flight to Kathmandu. Flights to Bangkok, Singapore, Hong Kong, San Francisco, Denver.

The detailed record of these trips is online: Rolston Trail Log 1998 – 1999. Online at: <http://hdl.handle.net/10217/39095>

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1998. "Technology versus Nature: What is Natural" in ***CPTS Ends and Means: Journal of the University of Aberdeen Centre for Philosophy, Technology & Society*** 2(no. 2, Spring 1998):3-14. This journal is also in electronic form:

<http://www.abdn.ac.uk/cpts/techno.htm> From a lecture at University of Aberdeen, Nov. 19. 1997, during the time Rolston was in Edinburgh, giving the Gifford Lectures.

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why society should give high priority to the Endangered Species Act. Rolston essay on page 10.

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1998. "Values at Stake: Does Anything Matter?" reply to Ernest Partridge's reply to "Are Values in Nature Subjective or Objective?" In Louis P. Pojman, ed., ***Environmental Ethics: Theory and Applications***, 2nd ed. (Belmont, CA: Wadsworth Publishing Co., 1998), pages 88-90.

1998. "Saving Nature, Feeding People, and the Foundations of Ethics," ***Environmental Values*** 7(1998):349-357. Reply to three critical articles responding to Rolston's "Feeding People versus Saving Nature," in William Aiken and Hugh LaFollette, eds., ***World Hunger and Morality***, 2nd ed. (Englewood Cliffs, NJ: Prentice-Hall, 1996), pages 248-267. See earlier under 1996 entry.

1998. Review of Larry L. Rasmussen, ***Earth Community Earth Ethics*** (Maryknoll, NY: Orbis Books, 1996), in ***The Presbyterian Outlook*** 180 (no. 28, September 7, 1998):13.

1998. "Planetary Aesthetics: The Sublime and the Sacred," Howie Lectures, Union Theological Seminary in Virginia, Richmond, October 9-10, 1998. There is lecture text, in archives, but this was not published as such. The lectures are recorded and on both VHS tape and DVD. DVD copies in the Colorado State University Library in general circulation, also in other libraries. Material is largely published elsewhere.

Lecture 1: Earth: The Planet Gone Wild

Lecture 2: Animals: Beasts present in Flesh and Blood

Lecture 3: Life: Perpetually Perishing, Perpetually Redeemed

1998. Meeting Environmental Challenges. 1998 Research Bulletin, Colorado State University. With Rolston feature, "Environmental Ethics."

1998 (1999). "Are Values in Nature Subjective or Objective?" Reprinted, translated into Chinese, "Ziran zhong de jiaoshi shi zhuguande haishi keguande?" in **Huanjing yu Shehui (Environment and Society)** 1(no. 1, 1998):49-55, first half; 2(no. 1, 1999):53-57, second half. Liu Er, Ye Ping, translators. Originally in **Environmental Ethics** 4(1982):125-151. Both filed in 1998.

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1998. "Value in Nature and the Nature of Value." Reprinted, translated into Chinese (second time), "Ziran de jiazhi yu jiazhi de benzhi (Value in Nature and the Nature of Value). Pages 5-12 in Ye Ping, ed., **Huanjing yu kechixu fazhan yanjiu (For Environment and Sustainable Development)**. Harbin, China: Heilongjiang Science and Technology Press, 1998. ISBN 7-5388-3508-3. Selected proceedings of First All-China Conference on Environment and Development, held in Harbin, China, October 20-24, 1998. Originally in Robin Attfield and Andrew Belsey, eds., **Philosophy and the Natural Environment** (Cambridge: Cambridge University Press, 1994), pages 13-30. Royal Institute of Philosophy, Annual Supplement Volume.

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1998. Profile of Holmes Rolston, III. Former member of Abingdon Presbytery, Virginia. P. 182 in **Presbyterian Church (U.S.A) Mission Yearbook**. Louisville, KY: Presbyterian Church (U.S.A), 1998.

1998. "Taking Care of the Land," ***Nature Conservancy of Alabama, Alabama News***, Fall 1998, p. 8. Rolston profile of his grandfather, W. L. Long, who took care of his land, on the occasion of donation of proceeds from a parcel of this land to the Alabama Nature Conservancy.

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1998. "A Forest Ethic and Multivalue Forest Management," co-authored with James Coufal, College of Environmental Science and Forestry, State University of New York, Syracuse. Reprinted, translated into Chinese, in ***Information about Ecophilosophy***, at Northeast Forestry University, 1998 Translated by Ye Ping, Social Science Department, Northeast Forestry University, Harbin, China. Originally in ***Journal of Forestry*** 89(no. 4, 1991):35-40.

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1998. "Feeding People versus Saving Nature." Reprinted in Donald VanDeVeer and Christine Pierce, eds., **The Environmental Ethics and Policy Book: Philosophy, Ecology, Economics**, 2nd ed. (Belmont, CA: Wadsworth Publishing Co., 1998), pages 409-420. Originally in William Aiken and Hugh LaFollette, eds., **World Hunger and Morality**, 2nd ed. (Englewood Cliffs, NJ: Prentice-Hall, 1996), pages 248-267.

1998. Egypt. January 2-15, 1998. Flights: Denver to JFK in NYC. EgyptAir to Cairo. Flew to Luxor, and boarded "floatel" named "The Ritz," sailing the Nile. Luxor Temple. Karnak Temples, the largest religious site in the world. Valley of the Kings, tombs of several Ramses pharaohs. Located the tombs of Merneptah and Ramses II, the two possible pharaohs of the Exodus. Valley of the Queens. Collossi of Memnon - Pharaoh Amenhotep III. Armed police escort. Temple of Horus (falcon god of protection) at Edfu. Kom Ombo, a dual temple to Haroeris (falcon god) and Sobek (crocodile god). Flight to Abu Simbel. Drove across the old Aswan Dam, then to airport. Flew over Lake Nasser. World's largest artificial lake. Built by Russians, with problems. Temple of Hattor (goddess of love). Flight back to Aswan. By motorboat to the Temple of Philae. Papyrus. Sailboat ride. Esna temple. Flight to Cairo. Al-Muallaga Church, Hanging Church. Church of St. Sterius, oldest church in Egypt, with a crypt where (supposedly) Mary and Joseph and Jesus lived. Great Pyramid of Cheops. Pyramid of Chepron. Sphinx, 2600 B. C. Memphis. Saggara. Tombs of Akhti-Hotep and Ptah-Hotep. Children making carpet. Egyptian museum. Stele of Merneptah, with the name of Israel (Hebrews). Mummies of Ramses II, and Mereniptah, and others. Flights home. Via JFK to Denver.

The detailed record of this trip is online: Rolston - Trail Log 1998 -1999
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1998. Finland and Norway, June 1 – 17, 1998. Murmansk, Russia

Flights: Denver, Newark, Oslo, Helsinki. Train to Joensuu. Taxi to Ilomantsi, site of conference. Rolston spoke at Conference on Aesthetics of Mires and Peatlands. Boat trip to bogs on a boat with oars. Field trips. Conservation and natural history of peatlands. Bus to Joensuu. Train to Helsinki

Flight to Copenhagen. Reached Bergen, and boarded the cruise ship, the Vesteralen. Visited various towns on cruise north. Crossed the Arctic Circle and the polar tree line. Tundra. Honningsvåg and bus trip to North Cape. Reindeer. Whales. Midnight sun. Boat continued to Kirkenes. Small boat trip up the Pasvikelv River. Triton's Cave. Reached the Russian border.

Trip by taxi to Murmansk. Reached Nikel, where nickel is mined, a scene of utter devastation over a hundred square kilometers, from the acid rain. Bleak and wretched. Trees dead over large areas. Submarine base, Percenga Reached Murmansk and tours of city and area. Russia's only ice-free port in the north; the Allies had to get supplies through here in World War II. \$1 = 6 new rubles, 6,000 old rubles. Return taxi drive to Kirkenes. Troubles due to airline strikes getting return flights. Flights to Oslo, Newark, and Denver.

The detailed record of this trip is online: Rolston Trail – Log 1998 - 1999
<http://hdl.handle.net/10217/39095>

China, October 20 - November 7, 1998 Harbin. Visits to surrounding Nature Reserves and various universities and schools.

Flight from Denver. Flight from Chicago on Korean Air. Reached Seoul, Korea. Flight to Beijing. Flight Air China flight to Harbin. Met by Ye Ping, Liu Er, and Yu Mouchang. Liu Er proved an excellent interpreter. He was in U.S. 23 years. The conference is at the Harbin Institute of Technology. This is a different institution from Northeast Forestry University. Gave paper. Lunched with students.

Then we were picked up on a bus for what proved to be an all night bus ride. The bus driver got lost and nobody knew which roads to take. They variously stopped and asked and turned around, with general confusion. The bus stopped two or three times in the night for toilets just along the roadside. Reached Dailing about daybreak. They didn't know where the nature reserve was. Located a person from the Liangshui (Cold Water) Nature Reserve, who came and got us. There is also here an experimental forest of the Northeast Forestry University. Sustainable forestry was an ideal, but never practiced. Forest walk in the afternoon. Cold.

Met Yang Tongjin, who is translating my *Environmental Ethics*. Met Fan Chun Ping. She is editor of the Jilin People's Publishing House. They are publishing my *Philosophy Gone Wild*. The chief editor is Wu Guosheng, a researcher at the Institute of Philosophy, Academy of Social Sciences, Beijing. The print run is 5,000 copies. Bus drove back Harbin, mixed roads, often rough. Visited the office of the Harbin Center for Environment and Society. Visit to Northeast Forestry University. Visited the ecology laboratory, Open Research Laboratory of Forest Plant Ecology. Herbarium with 200,000 specimens. Visited the College of Wildlife Resources, in a splendid blue building.

Trip north to Nehe, and on to the Wudalianchi Nature Reserve. On the train, rode through broad, flat plains. This is the Dongbei Pingyuan. Northeastern Plain, sometimes the Manchurian Plain. This is the largest plain in China. The train went by vast marshes and water covered landscapes. This is on the Nenjiang River. Reached Qiqihar and transferred trains. More flat plains, mixed with marshlands. Reached Fuyu. The railroad right of way is heavily grazed by cattle. Arrived Nehe. Picked up by Yang Changguo, vice-mayor and vice-party secretary, in a fancy Audi automobile. Interview in hotel room. Departure by car (a big Volkswagen). We drove in the dark an hour and a half. Dirt road but not too bad. Reached Wudalianchi, the name of a sizeable town (and also the name of the Nature Reserve, to come). The road is under

construction, so we took a detour, and got lost. Returned to Wudalianchi and they bargained with a man in a four-wheel drive to take us.

There was a very muddy mess alongside the road under construction, and essentially only one barely passable road, and various tractors, tricycles (autorickshaws), and 4WD's trying to get through. Eventually we got to a bridge over the Nemor River, and afterward it was better, though still 4WD the rest of the way. Reached Wudalianchi, the nature reserve.

Wudalianchi. Five Joined Lakes Nature Reserve. Fourteen volcanoes here. Drove to a lake, the gate was broken and we had to walk in. This is one of the five lakes. Then back to the 4WD and off to the volcano. The Park was closed but they persuaded a gate woman to let us in. We drove in toward the volcano mountain, Daheishan (Great Black Mountain), or Heilongshan (Black Dragon Mountain) (two names for the same mountain). Then we parked and walked up one volcano. Rather nice stairstep pathway. Reached the crater. This erupted 1719-1721. Four of the five lakes can be seen from the top. The driver got from the gate woman a striking piece of congealed lava. Drove back to the main town, also named Wudalianchi. Now so many vehicles were stuck in the construction on the town side of the bridge that we had to walk back into town. Picked up the driver in the Volkswagen, and returned to Nehe.

Overnight train back to Harbin. Six berths in a compartment, no doors, just strung along a narrow hallway to one side of the car. Caught the train south. Arrived in Jilin, spent night. Reached Meihekou. Left for Tonghua, sleeper train. Arrived in dark at town of Lushuihe (county of Fusong), and took taxi to Lushihe Forestry Bureau. Changbai Mountain Nature Reserve. A Man and the Biosphere Reserve. Fairly intact comprehensive ecosystem. Only alpine tundra in east China. Drive through the forest, lots of planted ginseng. Reached a substation, and met a party headed by the secretary of the communist party for this work unit. There was an endless dinner. Went to visit a primeval grove. The king of the Korean pine, a specimen said to be 500 years old. *Pinus koraiensis*.

Returned to town. We found the hermit, Ju Xi, by inquiring at the post office. He met us and led us to his home, down a narrow path with board fence. Surprising inside. He has a personal library of 10,000 volumes, all in glass cabinets. He showed me articles he has written. He is philosophical Taoist, though not a religious Taoist. There was a complete set of the works of Marx and Engels. An encyclopedia set of the ancient Taoist works. Then we went into a computer room, then into two rooms filled with old amateur radio gear.

Caught train at 9.24 for Beijing. This was the best of the sleepers. Still 6 berths, open, no doors train. The train was crowded and dirty, so we moved to a higher class car. Reached Tonghua. Left for Shenyang on crowded, dirty train, the worst of the trip. Taxi to Northeast University after midnight. Met with university officials all through the morning. Interview with a woman newspaper reporter. Nice lunch with the President of the University and others. Gave a lecture in a big science hall, on maxims in environmental ethics. Crazy, there were 500 students jamming the large lecture hall,

standing in the aisles on both sides. They applauded when I walked into the room. Many seemed to understand a good deal of English, or at least they did when Liu Er also translated. There were questions at the end, some in English. A rather electric meeting. About 30 wanted signatures afterward, and various photographs taken, including two with 20 or so students. Talked with a woman, Hu Sulian, Political and Economic Department of Shenyang Teacher's College. That evening, at the "English speaking corner," I spoke English with students who came there to practice English. Several here spoke rather good English.

Qianshan Nature Reserve. Surprise, a good 4-lane motorway to Anshan. Driving 90 mph in China!!!. Went to Environmental Protection Bureau and got a guide. This is really a religious sanctuary, with Taoist and Buddhist shrines and temples scattered up a steep and forested mountainside. But considerable forested lands surround this, and they claim it as a nature reserve. Hiked. Passed some ginkgo trees that must have been wild ones. Climbed a steep wall and squeezed through a difficult crevice in the boulders. Up a giant boulder with one step and a chain to pull on. "One step to the sky." Then we took a very rough short cut part way back and regained the earlier path. Hiking about three hours.

Lunch in Anshan with the Environmental Protection Bureau there. Conference with about 30 persons, and 10 or so student observers. Rolston spoke on the three needed environments, wild, rural, urban, and with the claim that China's rarest environment was wild. Far few social problems would be solved by sacrificing the remaining wildlands.

Overnight train for Beijing. This was the best of the sleepers. Still 6 berths, open, no doors. Then a long taxi ride, through Tiananmen Square, to Evergreen Hotel at Youth College for Political Science. Enthusiastic welcome there. Interview with reporter for Station BTV, Beijing. This is the main TV station in Beijing. The name of the woman who interviewed me is Huo Xiu. This was filmed outside. They have a program "Going with Nature." Bought lace tablecloth for Jane. Lecture at the Chinese Academy of Social Sciences. Tour of the Great Wall of China. Walked up it, steady climb for two hours, and rode cable car down. The Wall forms a kind of nature reserve corridor. Visit to Yangi Lake (= Wild Goose Lake).

Taxi to Beijing Airport. Flight to Seoul. San Francisco, Denver.

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<http://hdl.handle.net/10217/39095>

1998. Middle Fork Salmon River. River run. River of No Return Wilderness. Sawtooth Mountains, Idaho.

July 21 - August 6, 1998. With Gray Hampton, brother-in-law. Drove to Laramie, then west on I-80. Trouble with alternator about Kemmerer and made it into town, though we could easily have been stranded on the road. Got it fixed at a GM place in Kemmerer. Drove to Montpelier, ID. Drove on into Pocatello, Snake River Valley, or Plain, and on toward Arco. Dry, desert area here. Toured EBR-1, Experimental Breeder Reactor 1. This was the first breeder reactor (which makes more fuel than it uses), and also the first reactor to generate electricity. It is out in the middle of nowhere (deliberately), now a museum. The Idaho National Engineering Laboratory is here, mostly north of the road. No admittance there. Drove to Craters of the Moon National Monument, and visits there.

Reached Carey, then turned north to Bellvue, on to Halley and Ketchum. The area becomes fancy ski towns, with expensive houses. Drove over Galena Summit and the Sawtooths came into view. Great panorama now far below the Galea Summit. Campsite at North Shore Campground on Alturas Lake. Hiked Fishhook Creek Trail to an open meadow with peaks on each side. Joined by Gray's son, also named Gray. Hike to Alpine Lake, all day. Drove to Redfish Lake and caught a shuttle boat to Redfish Inlet Transfer Camp. Fairly steady climb all morning with good switchbacks higher up. The peaks through the clearing mist were spectacular. Return to and on the shuttle boat. Evening, magnificent double rainbow. Climb to an alpine basin, 20 goats.

Drove to Stanley Lake. Hiked to Lady Face Falls. Met with Bob Sevy in orientation for river trip. The river flow is at moderate level. The River of No Return Wilderness is the largest in the continental U.S. Trip leader: Matt Leidecker. Did geology at Middlebury College, Vermont. There are some 200 rapids in the 100 mile stretch we will run. Shuttled to Boundary Creek and launched. Oar boats, passengers ride, and the guide steers with two oars. Paddle boats, six passengers paddle, and the guide steers with a paddle. First Bend Rapid. Sulphur Slide Rapid. Ramshorn Rapid. Velvet Falls. Most rapids are made by boulders in the river. But this is a bed rock rapid, made by a resistant ledge of rock, granodiorite. Several got thrown out.

The Chutes. Elkhorn Rapid. Landed and walked to an old cabin and stamp mill for gold at Powerhouse Rapid, from the 1930's. Joe Bump Cabin. Powerhouse Rapid. Camped at Sheepeater Hot Springs, mile 13.0. Artillery Rapid. Cannon Creek Rapid. Pistol Creek Rapids, a good one. The river is very narrow in an S turn. Passed about 20 cabins at Pistol Creek Ranch, with airstrip. Walked up to adit at Pungo Creek. Camped at Little Soldier, mile 30.8. Gray and I took a kayak for a while and got flipped once. Camped at White Creek Camp. Mile 47.3. Steak supper and recitation of "The Cremation of Sam McGee" afterward by Matt Leidecker.

Hospital Bar. Haystack Rapid. Haystack Rock is in the middle of the river. No kayaks here. Guides say this is the worst rapid on the river. One person fell in. Otter. Visited Rattlesnake Cave, with Indian pictographs. Camped at Woolard Creek, Mile 74.9. Waterfall Creek Rapid. Big Creek Rapid. Here the Big Creek Trail leaves the river on the west side, and the Waterfall Creek Trail leaves on the east side. You enter Impassable Canyon (impassable to the U.S. Calvary). Redside Rapid. Redside is the colloquial name for cutthroat trout. Redside and Weber Falls are two good rapids.

Bighorn sheep. Upper, then Lower Cliffside Rapids. Camped at Tumble Creek, just below Lower Cliffside Rapid. Mile 88.8.

Rubber Rapid. Guide says this is the heaviest white water on the river. Hancock Rapid. Devil's Tooth Rapid. House Rock Rapid. Reached the confluence with the main Salmon. Reached the take-out at Cache Bar. Bus most of the afternoon back to Stanley. Drive home. South to the Snake River Plain. Picked up I-84 to n.w. corner of Utah. Several glimpses of the Great Salt Lake. Night in Rock Springs, WY, then home.

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<http://hdl.handle.net/10217/39095>

1999

1999. "A Managed Earth and the End of Nature?" Pages 143-164 in Marina Paola Banchetti-Robino, Lester Embree, and Don E. Marietta, eds. ***The Philosophies of Environment and Technology***, vol. 18 of ***Research in Philosophy of Technology*** (Stamford, CT: JAI Press, 1999).

1999. "Call of the Wild: African Safari a Mix of Intrigue, Adventure, and Survival," ***Fort Collins Coloradoan***, October 30, 1999. Report on trip to Botswana, environmental conservation and biodiversity, May-June 1999. Pages D8, D7. Online at:
<http://hdl.handle.net/10217/37333>

1999. Botswana. Botswana and Tanzania. Okavango Delta and Selous Game Reserve. May 21-June 12, 1999. Flights Denver, London, Johannesburg. Flight, Zimbabwe Express, to Victoria Falls in Zambia / Zimbabwe largest waterfall in world (in wet season). Transfer to Matetsi Game Lodge, operated by Conservation Corporation of America. Tented camp, overlooks Zambezi River. Wildlife viewing. Elephant Camp and elephant ride. Crossed Zimbabwe-Botswana border at Kazungula. Once Bechuanaland. Puku (rare endemic antelope). Baboons, lions, impala, elephants. Pitched camp at Serondela Hatab Site No. 1. Drive to Chobe Game Lodge. Game drives, several days. Wild dogs. Lechwe (an antelope). Leopard close in the night. Boat trips. Transfer by air to Xepa airstrip and thence to Jacana camp. Flew in a 10

seater Islander, made by Brittain Norman. Motorboat to camp. Okavango Delta is really an alluvial fan. The Okavango is the river that never finds the sea. Sitatunga - elusive aquatic antelope, confined to papyrus swamps and adjacent land. Flight, about 15 minutes in a Cessna Stationair 6, to Xudum Camp (pronounced Chudum). Wild cats by spotlight. Lions hunting in the night. Twenty minute flight to Maun in Cessna Islander. Flew over a veterinary fence. Maun-Johannesburg flight.

June 6, Monday. Trip to Tanzania and Selous Game Reserve. Flight Johannesburg to Lilongwe, Malawi, then Dar-es-Salaam, Tanzania. A chimpanzee trip has been cancelled. Flight on 14 passenger Cessna Caravan to Selous Game Reserve, flying over airstrip to chase animals off it before landing. World's largest game reserve. Rufiji River Camp. Wildlife and especially birds. Good guides. Boat ride with large crocodiles, close with mouths open. Hyenas, hippos, elephants, impala, giraffe, African hoopoe, palmnut vulture, ebony tree, Pel's fishing owl. Flight to Dar-es-Salaam. By car to Mikumi National Park. Much poverty. Chatinze, reached Uluruguru Mountains. Return to Dar-es-Salaam. Flight to Entebbe (Uganda), night. Flight to London, Gatwick, and Denver.

The detailed record of this trip is online: Rolston – Trail Log 1998 – 1999.
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Sawtooths and Bighorn Crags, Idaho. Frank Church/River of No Return Wilderness

July 6-20, 1999. Drove to Pocatello with cousin Bill Forbes and son Billy Forbes. Craters of the Moon National Monument. Ketchum, Idaho. Glacier View Campground. Hike to Alpine Lake. Sawtooth Lake. Fishhook Creek Lookout. Bob Sevy, guide for Bighorn Crags trip. Drive to Challis, and to Bighorn Crags Campground. Hiked trail north to Cathedral Rock. Horses and mules packing our gear. Hoodoo rocks. Made camp at Welcome Lake. Hiked to Heart Lake and over a pass to Terrace Lakes. Waterfall below Wilson Lake. Fishfin ridge, and spectacular rock formations, then to Wilson Lake and on to Harbor Lake. Wildflowers. Hike to Reflection Lake. Hike out, lost llama. Total hiking, about 75 miles. Return drive through Golden Spike National Historic Site, Promontory, Utah. Golden spike was driven May 10, 1869, actually several of them.

The detailed record of this trip is online: Rolston -Trail Log 1998 – 1999
<http://hdl.handle.net/10217/39095>

1999. "Ethics on the Home Planet." Pages 107-139 in Anthony Weston, ed, **An Invitation to Environmental Philosophy**. New York: Oxford University Press, 1999.

1999. "Ethics and the Environment" (Types of Environmental Ethics). Chapter 11 in Emily Baker and Michael Richardson, eds., **Ethics Applied**, edition 2 (New York: Simon & Schuster, 1999), pages 407-437.

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2000. "Biodiversity and Spirit," **Science and Spirit** 11(no. 4, November/December 2000):34. Epilogue, one-page essay in a theme issue on Science, Religion, and the Stewardship of Earth.

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--2002. First Brazilian Symposium on the Philosophy of Nature, Marcia Gonçalves. Conference failed, but they published a proceedings nevertheless.

--2004. Davidson College, Board of Visitors

--2003/2004. "Die Umweltethik und der Mensch: Über intrinsische Werte in der Nature" (Environmental Ethics and Humans: On Intrinsic Value in Nature)," **Scheidewege: Jahresschrift für skeptisches Denken** 33, 2003/2004, pages 251-266. ISSN 0048-9336. ISBN 3-92518-19-7. Online at: <https://hdl.handle.net/10217/196985>

--2005, June 6-13, 2005. Selfoss, Iceland. Conference, "Nature in the Kingdom of Ends, "Keynote address: "Intrinsic Value in Nature."

A related interview is:

--2006. "Eigingildi í náttúrunni -- heimspeki á villigötum?" (in Icelandic) ["Intrinsic Value in Nature -- A Philosophy Gone Wild?"]. Interview by Thorvardur Arnason with Holmes Rolston, III, in **Hugur** 17(2005), pages 12-26. Published in 2006. **Hugur** is an annual, the only Icelandic periodical that is solely dedicated to philosophy.

--2006. Revised with some themes in global policy: "Intrinsic Values on Earth: Nature and the Nations." Pages 47-68 in Henk A.M.J. ten Have, ed., **Environmental Ethics and International Policy** (Paris: United Nations Educational, Scientific and Cultural Organization (UNESCO), 2006). ISBN: 13:987-92-3-104039-9

--2006. Wildlife Trust, Keynote speech at their Advisory Board, May 1, 2006. Mary Pearl.

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2000. Review, Ed Ayres, ***God's Last Offer: Negotiating for a Sustainable Future*** (New York: Four Walls Eight Windows Press, 1999), in ***Conservation Biology*** 14 (no. 2, April 2000):584-585.

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Tongjin, Institute of Philosophy, Chinese Academy of Social Sciences. Originally: Philadelphia: Temple University Press, 1988.

2000. "Challenges in Environmental Ethics." Reprinted in Lawrence H. Hinman, ed., ***Contemporary Moral Issues: Diversity and Consensus***, 2nd ed. Upper Saddle River, NJ: Prentice Hall, 2000. Pages 587-604. Originally: Pages 135-157 in Michael E. Zimmerman, J. Baird Callicott, George Sessions, Karen J. Warren, and John Clark, eds., ***Environmental Philosophy: From Animal Rights to Radical Ecology***. Englewood Cliffs, NJ: Prentice-Hall, 1993.

2000. "Aesthetic Experience in Forests." Reprinted in Peter C. List, ed., ***Environmental Ethics and Forestry: A Reader*** (Philadelphia: Temple University Press, 2000), pages 80-92. Originally in ***Journal of Aesthetics and Art Criticism*** 56(1998):157-166.

2000. Antarctica. Trip records, notes, maps, photographs. January 27-February 21, 2000, with Gray and David Hampton. Gray Hampton is my brother in law. Miami flight to Buenos Aires, Argentina. Flight to Ushuaia, Argentina. Board ship for trip, the Marco Polo. Drake Passage. Antarctic convergence. Humpback whales, fur seals, albatrosses. Port Lochroy, Weincke Island. Paradise Harbor, on Waterboat Point. Icebergs. Penguins. Operation High Jump in 1947 was the largest exploring force in history. 4,700 men, 13 ships, and 20 aircraft. They built Little America IV. When he was in the Navy, Gray was on Little America V, in 1956-57, and once met Admiral Richard Byrd. Lemaire Channel. Zodiac cruise to Hovgaard Island. Seals. Bismark Strait and out to open sea, for a 6-7 day voyage to the Ross Ice Shelf area. Bellinghausen Sea. Peter Hillary lectures, son of Edmund Hillary.

Amundsen Sea. Mt. Erebus (active volcano). Midnight sun. Killer whales, orcas. Visit to McMurdo Station. Cape Evans and visit to Scott's hut. Ship hits iceberg. Beaufort Island. Terra Nova Bay. Coulman Island. Cape Adare, huge icebergs. Auckland Islands. Christchurch, and flight across Pacific home.

The detailed record of this trip can be found in Rolston, Trail Log 2000-2004, online at <http://hdl.handle.net/10217/41103>

A newspaper account is "The Coldest Place on Earth: Forbidding, Foreboding Antarctica Shrouded in Ice and Mystery," *Fort Collins Coloradoan*, June 24, 2000, sec. D. Online at: <http://hdl.handle.net/10217/37327>

2000. Scotland and Ireland, May 26-July 9, 2000. Conference and Scottish conservation and natural history. Flights, Denver, Gatwick, Aberdeen. Gifford Conference on Natural Theology. Gave paper, "Naturalizing and Systematizing Evil." Dunnottar Castle. The Linn of Dee. Drum Castle, vicinity of Banchory. . Boarded the P & O ferry, St. Sunnva, for the Shetlands. Lerwick, Shetland. Loch of Clickhimin. Veensgarth. Whiteness Voe, sea loch. Kerbard. Brae, Sullom Voe, Shetland's largest sea inlet, Europe's largest oil terminal. Ollaberry. Hillswick, area called "The Drongs," with Vampire's Teeth - striking rocks in the sea. Yell and Unst, islands. Hermanness Nature Reserve. Burn of Winnaswarta. Storm petrel trip, Southwick, crossed to Moussa, walk to Moussa broch, an old stone, circular fort. Storm petrels coming and going in the night, nesting in the broch. Sumburgh Head.

Aberdeen, drove to Stonehaven, several days with Rodney Payne, SeeBirds bird guide. Fowlsheugh Nature Reserve. Ythan River, Sands of Forvie Nature Reserve. Montrose Basin, a tidal basin, through which the S. Esk reaches the sea. Loch of Kinnordy. Loch of Lintrathen. Lintrathen Wildlife Reserve. New Pittsligo. Loch of Strathberg, a noted RSPB bird sanctuary. Cairn Asoda. Spittal of Glenshee.

June 13, joined by wife, Jane Rolston, trips to Inverness, John O'Groats, and Orkney.

Drove to Alford, Kildrummy Castle, Loch Garton Natural Reserve, and Osprey Centre. Duncansby Head. Ferry to Orkney. Stromness. Stenness, Standing Stones of Stenness. Kirkwall, St. Magnus Cathedral. St. Margaret's Hope, Burwick. Ring of Brodgar. Skara Brae, the best preserved Neolithic village in Northern Europe. Maeshowe, or Maes Howe, a mound with a chambered tomb. Ferry back to Scotland.

Ireland. Glasgow, train to Stranraer, ferry over the Irish Sea to Belfast. Dublin, Cork and conference at University of Ireland, Cork. Gave paper, "Enforcing Environmental Ethics." Irish conservation and natural history. Joined a bus tour over Ireland. Galway Bay. The Burren. Connemara, Kylemore Abbey. Connemara, Sligo, Drumcliff (and Yeats' grave), and into Northern Ireland. Boat ride to Devenish Island. Londonderry (= Derry). Giant's Causeway. Ballycastle and 1898, Marconi made a famous first transmission of radio signals here, from lighthouse to land. Antrim Hills. Port Rush. Belfast. Downpatrick, and visit to St. Patrick's grave. Dublin. St. Patrick's Cathedral, now Church of Ireland (Episcopal), Museum of Natural History. Waterford. Blarney Castle. Killarney. Ring of Kerry. Limerick. Rental car and several days of touring. Shannon. London and flights home. The detail of this trip is in Rolston Trail Log 2000-2004, online at <http://hdl.handle.net/10217/41103>

2000. Backroads China. May 5 – 25, 2000. Flights Denver to San Francisco, on Cathay Pacific to Hong Kong. Dragon Air flight from Hong Kong to Kunming. Trip leaders: Eileen Walsh, Ph.D., Temple University, studies Chinese matriarchy; Wang Zhijun, Kunming Institute of Ecology, Kunming, Yunnan, China. Chinese nature conservation and panda conservation and research. Burma Road. "Flying Tigers" landed in Kunming. Narrow-gauge railway to Li Liang, and thence on a bus to the Stone Forest, area of karst limestone formations. Driving across the Yunnan plateau. Chu Xiong. Zixi Shan, Purple Mountain Forest Park. New Dali, Old Dali, a tourist city, Cangshan Mountains = Azure Mountains. Ancient pagodas. Gentong Temple. Hike on Qingbi Trail. Boating on Erhai Lake. Chairlift to Zhonghe Temple. Walk along Cloud Road. Reached Lijiang, bordering Tibet. Shangri-La? Valley of the Yangtze River, Tiger Leaping Gorge, Shudu Gang Lake.

Flight from Zhongdian to Kunming, thence flight to Chengdu in Sichuan Province. Dujiangyan City, and visited an ancient irrigation project, the Dujiangyan Irrigation Project, on the Min River. Gongda (village). Wolong Panda Center and Reserve. Return to Chengdu, Chengdu Panda Breeding Center. Flight to Hong Kong, San Francisco and Denver.

The detail of this trip is online: Rolston – Trail Log 2000-2004. Online at <http://hdl.handle.net/10217/41103>

2000. Yellowstone, Absaroka/Beartooths, and Bob Marshalls (from 7 Lazy P) 2000. July 17 - August 8, 2000. In paper archives, maps and routes for whole trip. Drove to Yellowstone, and Lamar Ranch. Rolston taught "Environmental Ethics in Yellowstone" class. Various wolves seen. Wolf pups and densite. Drive over Top of the World. Hiked Beartooth High Lakes Trail to Beauty Lake, 6 miles. Had to ford the outlet of Island Lake into Little Bear Creek. Drove to Beartooth Lake Campground. Next day, hiked to Beauty Lake, again, but from this direction. Forded creek. Then steady climb, reached Crane Lake, then Beauty Lake. Drove to Fantan and Sawtooth Lakes. Clay Butte Lookout Tower. Drove over Beartooth Pass, 10,947 ft. Pitched camp at Greenough Lake Campground. Drove to Lake Fork Trailhead and set off backpacking. Reached the bridge over Lake Fork, and pitched camp. Hiked to September Morn

Lake, from the east shore you can see the Beartooth nicely. Rock scrambles. Hike out and return to Red Lodge.

Drive north. Livingston. Bozeman, King's Hill Campground, at King's Hill Pass. Great Falls, Montana. Drove on to Choteau; passed Freezeout Lake. Reached 7 Lazy P Ranch. Main trail guide: Dave Hovde. Only five riders on trip. Left from Middle Fork Teton Trailhead. Rode up Middle Fork of Teton River, and over Route Creek Pass, a good pass, above timberline, and then down the west side, which is Route Creek. Heavy smoke over a ridge. Forest fire prevented us from reaching our intended camp in the area of Wrong Creek. So we turned around at Ten Mile Park, and backtracked to Nine Mile Park. Camped.

Smoke is rolling up the valley and in the camp area is a strong smell of smoke. We will have to ride out Nesbit Creek and over to the West Fork of the Teton trailhead, which is a roadhead, and find out what is going on. This took us over a wooded pass (leaving the Bob), dropping into Olney Creek, then joining the West Fork of the Teton, then to the West Fork trailhead, where they had a corral. forest fire is blazing up, smoke high in the sky. The Forest Service has closed all the trails south of Sun River Pass. Looks bad for the rest of the trip.

Rode over Teton Pass. A big burn, the Bowl Mountain Burn, 1998, starts at the pass and continues three miles or so. Rode to Bowl Creek and picked up Basin Creek. Camped. Hiked up the mountain over camp, and got a striking view of the fire area. Typically 6-8 good smoke plumes rising high, sometimes white and sometimes black. Six or eight times (with binoculars) we could see good flames, orange and the bottom of the smoke, flaring up. But in 3-4 seconds, the flames would disappear, as though the tree had been suddenly engulfed, almost exploded in fire. The highest flames were perhaps 4-5 times as high as the trees, spectacular. Rode down Basin Creek into Bowl Creek. Lightning and thunder badly frightened the horses. Several of us had a time reining them in. Grizzly Park. Gooseberry Park Cabin. Rode up Clack Creek, Trilobite Mountain. The ride is on and off the Continental Divide Trail. Spectacular ride up Gateway Gorge. Sabido Cabin. Camped in Big River Meadows.

Rode on long day ride, back down to Sabido Cabin, then up trail (# 371) that goes over to East Fork of Strawberry Creek, leaving that trail at a saddle, and riding out on a pickup trail on a ridge that ends as the n.w. side of Gateway Gorge. Quite a good ride. Great view from the top. You could see mountains in Glacier National Park on the distant skyline to the north. Quartz crystals. Rode over Gateway Pass (6,475 ft.), wooded, the Continental Divide. Rode down S. Fork Birch Creek. Spectacular ride, especially after crossing Gateway Pass, open slopes, once forested, now subalpine country. S. Fork Birch Creek. Climbed back up Crazy Creek to a spectacular pass. Trouble with horses spooked by bees.

Rode over the pass at the head of Crazy Creek. Then we rode around a cirque drained by Nanny Creek (maybe a mile ride), then over another ridge, the highest point on the trip (maybe 7,200 ft.), and dropped into Bruce Creek. Mt. Patrick Gass is prominent here. He kept a journal with the Lewis and Clark expedition, which has been published.

Camped at the head of Bruce Creek. Ride out. Ride total for trip 80 1/2 miles. Off from 7 Lazy P but, alas, car trouble in Great Falls. Replaced alternator.

Montana fires made PBS International News for its forest fires. Feature story on a broadcast originating in London. 100 homes destroyed. 1,000 homes evacuated. Feature story on CNN News. The governor has "locked down" the forests to reduce fire hazard. President Clinton flew to Idaho to encourage fire fighters. 20,000 civilian and military fire fighters have contained 60 fires. More acres have burned than in Yellowstone in 1988. Hard drive home.

The detailed record of this trip is online: Rolston – Trail Log 2000 – 2004
<http://hdl.handle.net/10217/41103>

Yellowstone National Park. Old Faithful in Winter and Wolves. March 8 – 22, 2000

Mar. 8, 2000. Left Ft. Collins, with Bill Forbes, cousin. High winds and blowing snow had closed Route 287 to Laramie, so we took I-25 to Cheyenne. Partly cloudy and quite windy. Reached Cheyenne and took I-80 toward Laramie. Over the high areas there was lots of blowing snow and slick roads. Then traffic slowed to a crawl for an hour. At the main trouble spot, there were seven trucks variously across the eastbound lane, a couple of them totally blocking the lane. We continued at a crawl, but we did stay moving. Reached Laramie and road conditions got much better. Still, several trucks had slid off the road. One U-Haul truck had gone off the road and the sides had split open and the poor moving family's stuff was all out on the median strip.

268 antelope counted during the day, typically in groups of 20-25. Several picket pins out (Uinta ground squirrels). One pheasant. One sandhill crane in a field. Reached Dubois about 4.30. Drove up Whiskey Basin and wildlife habitat there. The slopes of Whiskey Mountain are swept free of snow by strong winds and this attracts the bighorns. The largest wintering herd in North America is here, about 900 sheep. Nice adult bald eagle perched. 24 elk on hill top in distance. One bighorn sheep, magnificently silhouetted on a skyline ridge going up. Also an ewe some distance off. Two moose in willows, close in by road. Seven bighorns high up, about dark on the way out. Next day, back up Whiskey Canyon. 2 bighorns on a ridge top in lovely profile. 6 bighorns on the road. One young bighorn, see quite nearby on a rock. Total of 9 bighorns. The pines in here are limber pines, oval cones intact. Returned to Dubois. Adult bald eagle perched in a cottonwood tree, in town.

Left Dubois. Picnic lunch at Togwotee Pass, in plenty of snow. We checked in at Hatchett Motel, near Moran Junction. Drove into Grand Teton National Park. The

Tetons were not visible in the cloud and fog. In fact we never saw them in a week there. Drove south to the Elk Refuge just north of Jackson. 1,000-2,000 elk in the Elk Refuge. Perhaps 150 bull elk gathered in a group, all with quite good antlers. 19 elk seen through the trees, returning to motel. The road was snow covered from flurries the night before. Reached Coulter Bay and Bill and I snowshoed about an hour, walking across the frozen arm of Jackson Lake here, then back around on a trail that runs near the lake. Snowshoe hare tracks, nice set. Nice snow, 3-4 feet and we were the only (human) tracks over the most of it. Reached Flagg Ranch about 11.00.

The snow coaches left at 12.15. The vehicle is a Bombardier, nine passengers. Yellow coach with a Chrysler engine. Made in Canada. Noisy, they use earplugs, but a memorable experience. We ran on 3-4 feet of snow, which, they say, is about two-thirds of normal this year. We stopped and walked in about a hundred yards, on deep but hardpacked snow, to Moose Falls. The falls were still flowing nicely, not as iced up as one might think. Bald eagle high in the sky. Continued to Lewis Falls, where we walked over the road bridge. Reached West Thumb, with about fifty snowmobiles parked there. There were frequent snowmobiles the whole route. Walking tour of West Thumb Geyser Basin. Good guide, who had lots of facts and figures.

Continued in snowcoach to Old Faithful. En route a view in the distance of Shoshone Lake, the largest in the U.S. without a road to it. Half dozen elk nearing Old Faithful Lodge. Reached Old Faithful and Snow Lodge. Checked in hastily to get out to see Old Faithful erupt in a nice display. Then we walked to Giantess Geyser, said to be erupting off and on. But Plume Geyser put on a better display for us. Walked around some on Geyser Hill. Back to Lodge.

Next day, snowshoed to Mystic Falls. Walked the trail (blacktopped in summer) to Morning Glory Pool. 23 bison in a field in the snow. Carried our snowshoes as far as Morning Glory Pool, walking on packed snow. Then we put on snowshoes and walked uphill, with some searching for the trail, and on to Artemisia Geyser. Passed about 20 elk right at the edge of the trail. Near Artemisia Geyser, adult bald eagle in tree. We continued to snowshoe on the trail toward Mystic Falls, but it got rougher and eventually too filled with snow on steep-sloping hillsides of the canyon. We stopped possibly 200-300 yards short of the falls. It snowed all the hike, fine snow, though it filled our tracks more than we thought. We walked the road back, which turned out, toward the end, to bald eagles, one adult and one immature. 2 coyotes also at the carcass.

We took a road that was unused by snowmobiles and kept falling in through the snow. I had to put my snowshoes on. Back about 3.30, with all the hike we wanted. Six miles roundtrip. We walked out to see Old Faithful erupt, and with some sun and blue sky now. There were only six persons watching it! Walked back out to see another eruption of Old Faithful, shortly after sunset, and from the far side. Rather wintry. Then we walked the loop and back to the Lodge.

Next day, snowcoach to West Thumb and then to Flagg Ranch. Stopped at Kepler's Falls. Nice day, some snow flurries. Returned to car and drove s. toward Jackson on a fully snowpacked road. Quite wintry. Bright spots but we were unable to see the

Tetons, though some lower peaks showed through at times--quite mystical looking. Various moose and bison. Drove through the National Wildlife Refuge again, and the same 1,000-2,000 elk, more or less in the same places. More bulls this time than before. Reached Jackson. Drove over Teton Pass, lovely drive, cloudy bright, some blue sky. Continued up the Idaho side, to Ashton, and on north. Spent the night at Last Chance, a bit before Island Park. The country side is generally covered with 3-4 feet of snow. Potato farms, wheat farms. Targhee National Forest. We awoke to two moose feeding in the river, right out the motel window.

Drove to West Yellowstone. Drove north from West Yellowstone on Route 191, through Targhee National Forest, and then into the Gallatin National Forest. Passed an arm of Hebgen Lake. Continued north and reached Bozeman Hot Springs, and then east into Bozeman. Reached Bozeman. Continued east to Livingston on I-90. Reached Livingston and then drove south to Yellowstone. There was little snow in Paradise Valley, though there was snow in the hills. Checked in a motel in Gardiner, and rode up into the Park. Lots of antelope, deer, elk, bighorn sheep in great profile on a mountain top. Total of 447 elk for the day. Next day, drove to Visitor Center, then drove to Tower Junction. Then we showshoed to Tower Falls, up what is a blacktop road in the summer, 5 miles roundtrip. Reached Tower Falls, the falls with a big ice canopy, and the falls which could be seen through holes in this ice canopy. A good snow flurry on the way back.

Checked in at Lamar Ranch and moved into cabin. Jim Halfpenny, Instructor. Next day, off at daybreak. Drove up toward Soda Butte, about two miles east, and right off saw a great chase and near kill, the best sighting of the week. Close enough to the road (150 yards) to see it nicely in binoculars, though it all happened too quickly to get a scope on it. Three wolves chased a bull elk. One bit into its rear, but the elk was kicking hard and shook it off. The elk was first in the snow, but made it into a more snow free area, near some aspen trees, and there it could shake the wolves off. They hung around nearby for a while, and the moved further away. A fourth wolf joined them. (Jim HalfPenny videotaped it, and I have it on videotape. though he didn't get the first part of the chase, which would have been better still.)

Second chase. Twenty minutes later, the injured elk moved uphill into the snow, attempting to rejoin a group of elk higher up, from which it had been separated. The wolves returned and there was another chase with one wolf biting into the elk's rear and, again, the elk shook it off. Some fur flies off, and this can be seen in the video. The wolves hung around a while, then left. Later, they seem to have made another kill a little higher up, and out of sight. 12-15 ravens gathered in aspen trees above the out-of-sight kill.

Eventually we moved further down the road and were able to see one wolf at a distance higher above the kill site. Then two wolves, then three up on the hill, resting and playing--with some uncertainty whether they had fed or were waiting to feed. Drove up to Pebble Creek to see an elk carcass that had been killed by a grizzly bear, the first one seen out this season. Lots of tracks. Then returned to a set of grizzly tracks a half mile below the carcass, and made casts of these grizzly tracks. Lecture on tracking.

Back out look for wolves in late afternoon. None seen at the morning kill, though others had seen one or two a half hour before.

Next day. Temperature 0° F. Up the valley, but no wolves, and none on the radio. They were unable to locate the Druid Pack. Nice day, cold. Red fox, seen walking across, up from the river. He crossed the road and went on up the hill. This is the first fox I have seen in Yellowstone. We walked in to a bison carcass, and Jim cut a bone to check the bone marrow, indicating the state of health of the animal when it died. This bison died, rather than was killed, of unknown causes. We drove down to Slough Creek, on a little further to Junction Butte. Three wolves from the Rose Creek Pack were seen in the distance, on a carcass. The Alpha Male # 8, an original from Canada, and two uncollared pups, now nearly grown. We watched them 1 1/2 hours, coming and going, one at a time to feed. There were about 15 ravens on this carcass, also some magpies. Lower down, near the river, was another carcass, with three coyotes on it. That makes this a "three canid day" (wolf, coyote, fox). End of seminar. Bill and I went out in Jeep. A herd of 100 bison on a hillside below the morning look-out point for wolves, at Junction Butte. No wolf activity.

Gene Ball, Wildlife Observation Class. Four inches of snow during the night, and pretty dim, and low visibility as we set out. We drove up toward Soda Butte in low visibility and blowing snow. Elk, bison in winter snow, their fur much frosted over and wintry looking. No wolf activity. Drove back down to Slough Creek; weather cleared considerably. Drove past Tower Junction and on to Hell Roaring Fork and broad overlook. Several coyotes and dozens of elk at a distance. No wolves. Returned to Slough Creek and walked a quarter mile up a knoll. There we saw 7 wolves in the distance. Eventually I saw two more. Rose Creek Pack. These were about a mile out, but on the snow and nicely visible in the scope. I watched them 2-3 hours, and eventually got nine in my scope at one time. Nice howling of the pack for 30-40 seconds, heard well even at this distance. I could see one with its head up, howling. First time I have ever seen them howl. 2-3 coyotes also seen here, including one that walked by, and yipped, within 25 feet of us.

Drove down to Slough Creek. Others walked up to see the wolves from the knoll, but it was nearly dark, and I stayed in the van, having seen them already, all nine of them, for some hours earlier in the day. They saw four wolves. Next day, out at daybreak. No snow during the night. Up toward Soda Butte, and we spotted four wolves lying in the snow, fairly close in. We watched them from the van an hour. Great sighting, and I could pretty well use the scope inside the van, propping it against a window. Eventually they all howled and I had all four with heads up, howling at the same time. They were up and down, and walked around a bit, and then went back to lying down. Eventually, they walked up into the woods and out of sight. We drove to Soda Butte, and we were watching a bald eagle, when we heard the wolves howl again, this time from the south side of the road and river. We returned and saw three across the river, and watched them in scopes, 40 minutes. We never saw the fourth, but eventually there was howling answering back and forth from both sides of the road. Nice tracks at the pull out and tracks in the snow. Drove back down toward the ranch, and watched the bighorns.

We drove to Hell Roaring Fork and scanned elk and bison in the distance. Some had seen mountain lions from here in the day time a few weeks earlier. We snowshoed to Specimen Ridge (below Slough Creek). We passed an old bison skeleton in the snow, and also saw antlers, newly shed. Drove up toward Soda Butte. We watched one wolf across the river, about half an hour, some distance away, but plainly seen. Saw all eight wolves of the Druid Pack at or near the bison carcass (where Jim Halfpenny had cut the bone to inspect the marrow). There were two or three on it and six or eight up the hill a bit. The lower ones were quite close (as these sightings go). There were eight bull elk on the ridge above the eight wolves. Nice sight. We watched the wolves half an hour or more, and they eventually disappeared. It was now snowing harder. Later, we watched one disappear, fading into the falling snow. Nice sight. Dipper.

Returning, the wolves were asleep in the distance, all eight, but none moving. Just black blobs on the snow in the distance. John Varley was here, also Rick McIntyre. We had intended to drive in to Gardiner and hear David Mech, wolf expert, but Gene thought the road would be too slick coming back after dark. So we gave it up.

Next day, my shoe strings and boots were frozen to the floor. - 6° F. Drove down toward Tower Junction. Good sun dogs at Tower Junction. Then on the Hell Roaring Creek overlook. There were 8 wolves, the Rose Creek Pack, at much distance. 1 1/2 miles, where they had made a kill the previous day. We watched 3-4 of them harass several bison, for 40 minutes. They kept following them, but then the bison would turn and chase the wolves back a bit. David Mech and a group with him were present and watching, so I watched wolves with David Mech! Nice day. Returned. Packed up and left the Ranch. 16 bighorn ewes in the canyon between Mammoth and Gardiner. Drove east and south and home (2 days). 215 antelope during the second day, the biggest group with 45.

The detailed record of this trip is online: Rolston Trail Log 2000 – 2004
<http://hdl.handle.net/10217/41103>

2001

2001. "Biodiversity and Endangered Species," in Dale Jamieson, ed., ***A Companion to Environmental Philosophy*** (Oxford: Blackwell Publishers, 2001), pp. 402-415.

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Red Rocks 'n Llamas, Escalante Canyon, Utah. Capitol Reef National Monument. Arches National Park. April 21-May 1, 2001

With Bill Forbes. Drove to Grand Junction, for the night. Drove to Green River, then left interstate 70 and south to Capitol Reef National Park. Rangers there said they had

never seen it this abundant before, after good rains. Continued drive over Boulder Mountains. Reached Boulder, hardly a town, little more than a crossroads. Stayed at Boulder Mountain Lodge, a pricey resort drawing customers somehow from the uptown set passing through. Guides: Matt Graham, David Halladay, big on aboriginal skills. Jill Christensen. Born in Korea and left as an infant at a police station. Adopted by Mormons and raised in Utah.

Drove out to Harris Wash in van, with llamas in a truck, and started down Harris Wash. Hiked in and out of water all day. Put on my jogging shoes and just hiked in those, which stayed wet, and sandy. Typically 3-4 inches of water in the wash, nice sandy bottom, and we were walking in it half the time. Camped at a big alcove, with the kitchen in the alcove. Good folding chairs. Tent in an oak grove nearby. Hike to Silver Falls Creek. Hiked down Harris Wash. Quite scenic with walls on on of the wash. Reached the Escalante River about noon, and waded it. Walked up to the Silver Falls Wash. Walked up Silver Falls Wash.

David and Matt started a fire by hand drill from native materials and stone chipping tools. Used no knives or whatever, only local materials. Hike up top, to sand dunes. Reached an area with triangular petroglyphs. Corn cobs, bone fragments, all said to be from the Anasazi people, 800-1200 A.D. Tamarisk. *Tamarix ramosissima*. Salt cedar, a water hog. Trip to side box canyon. Hiked down the wash about one and a half miles. Investigated three alcoves, the biggest with various Anasazi fragments, corn cobs, pot shards, broken bones. Cryptobiotic soil crust. Patches of dark, knobby, brittle crust. Scruffy, apparently dead and dried out rind. Cyanobacteria, algae, moss, fungi, lichen. Because cyanobacteria are able to capture nitrogen from the air and convert it to a form that plants can use, it serves as fertilizer--in a system notoriously poor in nitrogen.

Began hike out. Reached the Portal (the narrowest area of the wash), and then did a loop to see a huge alcove, the best one yet, one what was once the course of the wash, like an oxbow, now cut off with the wash taking a shorter course. Return to Boulder.

Drive back. Reached Torrey, then Capitol Reef National Park. Camped. Hiked up Hickman Ridge Trail to Hickman Bridge, an impressive natural bridge. Hiked the Rim View Trail. Capitol Dome is a rock dome on the Reef that looks like the dome of the Capitol in Washington. Hike to The Tanks. Hiked through spectacular gorge, with a "pioneer registry," names of pioneers (and some later red necks) carved in the desert varnish. Grand Wash. Hiked the Chimney Rock trail. Goosenecks and Sunset Point.

Drove to Arches National Park. Various arches, including Landscape Arch. Drove home.

The detailed record of this trip is online: Rolston Trail Log - 2000 – 2004
<http://hdl.handle.net/10217/41103>

2001. Guam and Inter-Pacific Science Congress May 30 - June 9, 2001. With Jane, my wife.

Left Ft. Collins 7.40 a.m., reached Denver, for major snafu at the airport. Eventually rebooked for the next day. Minneapolis, then 12 hour flight to Tokyo, then flight to Guam. June 2-5, Saturday thru Tuesday, at the Pacific Science Inter-Congress. Maybe 300 here. World War II Military tour field trip. Visited Asan Bay, and Japanese cave carved into the hillside. Visited military museum on the base, and Japanese two-man submarine. Hard rain. Visited Ga'an Point, with Japanese guns.

Guam is U.S. territory, acquired from Spanish in 1898, end of Spanish American War. Japanese took it in 1941, with little fight as it was not fortified. Americans recaptured it in 1944, with big fight, 55,000 troops, 2,124 dead, 5,250 injured. 17,000 Japanese killed, or killed themselves, 1,250 captured. U.S. Naval base, U.S. Air Force base dominate the island. Guam is really the highest mountain in the world, if you base elevation from the bottom of the Mariana Trench.

After World War II, the brown tree snake was accidentally introduced into Guam, probably on military vehicles. With no natural predators and abundant prey, the snake population steadily grew and spread throughout the island. As the snakes dispersed, forest bird and fruit bat populations plummeted. By the late 1980's, twelve species of birds and the little Mariana fruit bat had disappeared from Guam. Introduced feral pigs and deer, over-hunting, and habitat loss from human development are also major factors in the decline and loss of Guam's native plants and animals.

Soil erosion, pollution of various kinds, especially sewage from tourist developments, mostly raw sewage dumped at sea, and over-fishing seriously impact Guam's coral reefs. About 25% of the coral reefs are designated as reserves or preserves, sometimes more, sometimes less well protected.

Got rental and drove south. Visited War in the Pacific National Historical Park. Hard rain midday. Saw site where Magellan is supposed to have landed in 1521 (though many doubt it). Saw feral pigs, seen near Talofofo Falls, four of them. Brown with white spots. One a boar. One seen later in a pen was all black. Considered a game species, with a hunting season. *Sus scrofa*. Saw beachfront pill box. Guam has an introduced deer, the Philippine deer, *Cervis mariannus*. It was introduced by the Spanish, 200 years ago. There is a hunting season on them.

Headed north and did the Fish Eye, boardwalk out 100 yards over the water and then you walk downstairs under water. Lots of lovely fish.

Found the Atlantis submarine dock and I took the submarine ride. Jane stayed ashore. Rode out in a surface boat. The aircraft carrier, Kitty Hawk, pulled into port last night, and we rode right by it. Transferred to a submarine, the Atlantis, and went underwater. Sub holds about 40 people. Rode over a coral reef, lots of different kinds of corals. I had a good one-on-one guide, one of the crew. Spectacular formations, though the color is not all that great, mostly just shades of blue and black. Lots of fish, though not

so many and not so highly colored as at the Fish Eye. All this was about 25-30 feet underwater. Then we descended to 120 feet, off the edge of the reef, and it got darker. We were said to be within 6-8 feet of the bottom but we couldn't see it. Little coral grows here, too dark.

Drove north, to Two Lover's Point, quite developed park. Then down to Tanguisson Beach Park. Returned to main road and drove north, through Anderson Air Force Base. Reached Ritidian Point, the northern tip of the island and Guam National Wildlife Refuge. 772 acres, not large, but the other side is a military base. Also two units are on military bases, not open to the public. Good beach with white sand. This is a turtle sanctuary. Greenback and hopefully Hawksbill turtles, which may be extinct. Also protects the endangered Mariana fruit bat.

Returned. Drove south, to the Chamorros village at Inarajan, and toured it. Making salt, boiling ocean water until they get salt crystals. Making coconut candy. Weaving coconut leaves into various items. Making a rope of tree fibers. Talofofo Beach Park. Visited Latte Park. Latte are carved stone pillars, look something like mushrooms. Eight pillars here, lined up in fours. These are thought to have been building foundations in pre-Spanish Chamorro culture, but when Magellan arrived, nobody knew what they were. Seem to date from 500 A.D. and onward. Drove up Nimitz Hill, to Asan overlook, which takes the position that the Japanese, entrenched in the hillside, had when Americans invaded Asan Bay. Japanese caves on this site.

Returned to motel, for early flight the next day. Flew home.

The detailed record of this trip is online: Rolston –Trail Log 2000 – 2004
<http://hdl.handle.net/10217/41103>

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2003. Ethiopia and Uganda. June 18 – July 12, 2003. Flights Denver, London, Addis Ababa, Ethiopia. Confusion, eventually met by my main host: Workineh Kelbessa, Department of Philosophy, University of Addis Ababa. Meetings with faculty and students. Intermittent electricity. Akaki Wetlands, via car and horse cart (gari). Debre Zeit and Lake Bishoftu, rim of a volcanic crater with a lake in it. Hike around Lake Hora, another crater lake. Trip to Nazaret (= Nazareth), Awash National Park. Beisa oryx. African fish eagle. Lucy (fossil hominid). Lutheran World Foundation and water projects. Fanuel Kebede works in the conservation of wild asses. Rolston gave university lecture. Visit to Senkele' Swayne's Hartebeest Sanctuary. Abijetta-Shalla National Park. Shashemene. Donkeys. Abyssinian roller. Mekane Yesus Theological Seminary.

Uganda. Flight from Addis Ababa, via Ethiopian airlines, to Entebbe, Uganda, on a peninsula in Lake Victoria. Visit by boat to Ngamba Island Chimpanzee Sanctuary. About fifteen chimps fed when they came near a protective fence. Crested cranes, shoebill storks. Return. Drive to Kampala. Tea plantations. Ndali Lodge. Drive to Kibale and chimpanzee forest. Two dozen chimps seen in two days, mostly in trees. Watched an old silverback named Dmwiko, 40 minutes, sitting on a broken stump at the base of a tree, doing mostly scratching. Kob (sort of antelope). Drive to Queen Elizabeth National Park for gorillas. In the camp I am staying in, in March 1999, eight tourists, including an American couple, were hacked or bludgeoned to death in the forest by a band of rebels -- armed with automatic rifles, machetes and spears -- who were said to be remnants of ethnic Hutu militias that carried out mass killings in Rwanda in 1994. (New York Times story, March 3, 1999) Baboons, elephants. Waterbucks, hyaena. Boat ride up Kazinga Channel, between Lake Edward and Lake George. Hippos. Lions. Python eating fruit bats. A dozen gorillas, including a silverback. Second day of gorilla searching in jungles, found a dozen and a half, moving through forest. Flight out to Entebbe was on a LET 410, a plane made in the Czech Republic. Flight to London, over the Sahara desert, then to Denver.

The detailed record of these trips to Ethiopia and Uganda can be found in: Rolston – Trail Log 2000 – 2004 online at <http://hdl.handle.net/10217/41103>

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<http://www.blackwellpub.com/asp/book.asp?ref=0631222944>

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2003. Templeton Prize archives

Templeton Prize, newspaper and journal articles. Photos. Perry Biddle, Rolston Templeton nomination. Materials prepared by Donald Lehr, Templeton Public Relations. Press Kit. Statement by Holmes Rolston III at the Templeton Prize News Conference, March 19, 2003, New York. Rolston, Reflections on Key Articles and Books. Rolston biography. A Chronicle: Holmes Rolston III. Some of these materials are available online in the CSU Library Digital Archives.

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"Nature of Things: Using the Earth with Justice and Charity," Davidson Journal, vol. 32, Summer 2003. Davidson College alumni journal story on Holmes Rolston winning the Templeton Prize and donating it to endow a chair in science and religion there. Holmes Rolston says he has spent his life in a lover's quarrel, not with his wife of four decades, but with the two disciplines he most loves: science and religion. Rolston recalls the influence of Davidson experiences in forming his career. Online in the CSU Library Digital Archives <http://hdl.handle.net/10217/37704>

2003. Bob Marshall Wilderness 200. July 26-August 10, 2003, 7 Lazy P. Left Ft. Collins, with Bill Forbes, a cousin. Cody, WY. Night at K Bar Z Ranch on Chief Joseph Highway. Rock Creek Road trailhead. Hiked to Glacier Lake. Drove through Yellowstone. Drive north to Choteau WY and to 7 Lazy P. Trip leader: Dave Hovde. Ride over Route Creek Pass, down Route Creek, past Ninemile Park, past Tenmile Park and then long ride into Wrong Creek, the last part of it through a 1988 burn, regenerating well. Camped at Wrong Creek. There is a fixed camp here, site is licensed to Chuck Blixrud, who uses it as a hunting camp. Rode to Round Park (here the Continental Divide Trail). Then rode over Sun River Pass, 6,251 ft., a low pass, entirely forested. Rode to Basin Creek (where we camped in 2000). Rode to Grizzly

Park, then to Gooseberry Park, then up 17 switchbacks to Trilobite Lakes. Nice camp and scenic location. Hike up Trilobite Peak. Brachiopod fossils seen on top, like a Shell Oil symbol. 2-3 inches across. Dean Lake.

Rode over Switchback Pass. Continental Divide, we are now back on the east (Gulf) side. Nice views now of the North Chinese Wall. Walked horses down. Lake Lavale, and rough campsite. Lunched at an area beneath Hahn's Peak, with an area of striking recent blowdown, 25-30 trees. Rain in the afternoon, and rode most of the afternoon in slicker. After Switchback Lake, there is a 15 mile ride straight down the North Wall (which occupied us a day and a half, Switchback Pass to Sock Lake. Hard rain, fight to stay dry, then clearing. I got up at 3.30 and stars everywhere, not a cloud in the sky. Mars was quite striking on the horizon above the Wall. Mars is at its "all time finest." It is closer to the Earth than it has been in 60,000 years--if by only a little, closer to the Earth than ever since prehistoric times.

Hiked to a saddle, then to a summit, Lookout Mountain, for a magnificent view of the wall further south. Gathering storm, and then lightning and thunder too close by forced us to hurry down. Next day, rode down, first through great spruce woods. Magnificent forest. Passed a big avalanche chute and enormous downed trees. Then we rode through 1988 burn the rest of the trip to Headquarter's Pass. Lunched at Gates Lake in the only shade we had seen for miles. Ranger Cabin and talked to ranger. One other horse party of 6-8 riders, the only one seen on the trip. There are fires on the west side (Holland Lake area, more or less). That part of the Bob is closed. Ride out over Headquarter's Pass. Descending, we took a rest stop at a notable big spring, the start of the S. Fork of the Teton River. Five goats, only 100 feet off. Total ride 75 miles.

After reaching trailhead, we watched a great galloping of horses and mules, excited by the return and the promise of rest and green grass. Drive to Great Falls, Lewis and Clark Interpretive Center. Drove to Billings, Hardin, and Fort Collins (2 days).

The detail of this trip is recorded in Rolston – Trail Log 2000 – 2004 online at <http://hdl.handle.net/10217/41103>

2004

2004. "Terrestrial and Extra-terrestrial Altruism." Prepared for Dough Vakoch, SETI Institute, Mountain View, CA, for an anthology. Publication failed initially, lapsed, and then was reinstituted in 2012. "Terrestrial and Extraterrestrial Altruism." Pages 211-222 in Douglas A. Vakoch, ed., *Extraterrestrial Altruism: Evolution and Ethics in the Cosmos*

(Heidelberg: Springer, 2014), q.v. at 2012.

2004. "Entrevista: Dr. Holmes Rolston III (Interview: Dr. Holmes Rolston, III)," **Ação Ambiental (Environmental Action)**, vol. 7, no. 30, September/October 2004, pages 5-8. This is the extension journal of the Universidade Federal de Viçosa, Brazil, and this a theme issue on environmental philosophy. In Portuguese. Interviewer James Griffiths.

2004. Review, Alister McGrath, **A Scientific Theology: Volume 1: Nature** (Edinburgh, T&T Clark; Grand Rapids, MI: William B. Eerdmans, 2001), in **Zygon: Journal of Religion and Science** 39(2004):962-966. Text is in 2002. This is a learned survey of historical ideas of creation and nature. McGrath is enthusiastic about the social creation of nature, yet he also seeks a "logocentric" account by which Christians have a privileged, or revealed account, appreciating what the sciences can genuinely discover, yet also needing a deeper account of how the wonderful cosmos comes into being. Online at: <https://hdl.handle.net/10217/210929>

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2004. "***In Situ*** and ***Ex Situ*** Conservation: Philosophical and Ethical Concerns." Pages 21-39 in Edward O. Guarrant, Jr., Kathy Havens, and Mike Maunder, eds. ***Ex Situ Plant Conservtion: Supporting Species in the Wild***. Society for Ecological Restoration International and Center for Plant Conservation. Washington, DC: Island Press, 2004.

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2004. "Environmental Ethics: Some Challenges for Christians." Reprinted in Susan J. Armstrong and Richard G. Botzler, eds., ***Environmental Ethics: Divergence and Convergence***, 3rd ed. (Boston: McGraw Hill, Inc., 2004), pp. 231-239. Originally in Harlan Beckley, ed., ***The Annual: Society of Christian Ethics*** (Washington: Georgetown University Press, 1993), pages 163-186.

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2004. Rolston taught at Washington and Lee University, Lexington, Virginia. April 23-June 1, 2004. Drove east. Class in environmental ethics. Various trips around the area, including Rockbridge Baths, Virginia, which was Rolston's birthplace. Hikes in Shenandoah National Park. St. Mary's Wilderness. East of Steele's Tavern. James River Face Wilderness. Return drive West. Includes lectures at University of New England, Biddeford, Maine and Davidson College, Davidson, N. C. There are no paper archives. Detailed record is in Rolston - Trail Log 2000-2004. Online at: <http://hdl.handle.net/10217/41103>

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Reprinted, translated into German, "Umwelt-Tugendethik: Die halbe Wahrheit - Sie für das Ganze zu halten, ist aber gefährlich (Environmental Virtue Ethics: Half the Truth but Dangerous as a Whole)," in ***Natur und Kultur*** 6/2 (2005):93-112.

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2005. "Eigingildi í náttúrunni -- heimspeki á villigötum?" (in Icelandic) ["Intrinsic Value in Nature -- A Philosophy Gone Wild?"]. Interview by Thorvardur Arnason with Holmes Rolston, III, in ***Hugur*** 17(2005), pages 12-26. Appeared in 2006. ***Hugur*** is an annual, the only Icelandic periodical that is solely dedicated to philosophy.

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2005. "Naturalizing Values: Organisms and Species." Reprinted, pages 88-100, in Louis P. Pojman, ed., ***Environmental Ethics: Readings in Theory and Application***, 4th edition (Belmont, CA: Thomson/Wadsworth Learning, 2005).

2005 Trip to Belize and Tikal. March 11-21, 2005. Trip records, photos, maps, natural history and conservation. Flight to Belize City, via Dallas/Fort Worth. Orange Walk, motorboat, New River, Lamanai, birds, Morlet's crocodile, black howler monkeys, agouti, fishing bats, storks. Tapir Mountain preserve. Butterfly farm. Kinkajou (like racoon). Iguana. Crossed the border into Guatemala. Tikal National Reserve and Mayan Ruins. Spider monkeys. Birds. Flight back to Belize City. Flight to San Pedro and Ambergris Cay. Motorboat to Belizian Shores Resort. Snorkeling. Boats and flights home.

For detail of this trip see Rolston Trail Log 2005-2009, online at:
<http://hdl.handle.net/10217/41104>

2005. Selway-Bitterroot Wilderness, July 1 – 12, 2005. Also over Lolo Pass and Selway River Corridor. With Christopher Preston. Drive north, Columbus, MT, Bozeman, MT, Missoula, MT. Visit with Tom Birch. Outfitter is Jim Vitale, Birch Creek Outfitters. Our wranglers are Butch (George) Ewalt, 62 years old, lots of hunting experience in these woods. He has killed 34 elk. The other wrangler is Jeff Rosmon, brand new, just out of guide school, age 36, recently out of the Marines. Horses, mules, and gear up Lost Horse road to Twin Lakes. Rode trail down East Fork Moose Creek and camped, good forested area. Rode further down through the Selway fire to their hunting camp. Back to camp. Two horses got loose and had to be recovered at the trailhead in the dark. Horses are "herd sour." We have to take them all wherever we go. They evolved as prey animals and feel safer in a group of companions. Better conditioned stock don't do this but lots of ordinary stock does. Also horses can be "trail sour," which means they will not stop if the horse in front of them goes on--a common thing but well-trained horses ought to stop. Rode back to trailhead and restocked. I was keying all the plants I could.

Rode Wahoo Pass and down Wahoo Creek. Difficult ride, badly eroded trail. Rose to Indian Lake, camped several days. This is now NezPerce National Forest. Well-shown on that map. Day ride through Horsefly Meadows, then through a burn, to

Freeman Peak. With view 25-30 miles in all directions and no sign of humans. Return to camp, rough ride. Ride out, and return to Missoula. Total ride about 80 miles.

Drive over Lolo Pass. DeVoto Memorial Cedar Grove, huge Western red cedars that really belong in the Pacific Northwest. Lowell. Drove up the Selway River corridor. Camped at a great red cedar tree, Selway Falls Campground. Pacific flowering dogwood, *Cornus nuttallii*, rare in this region. 13 mile drive up a 4WD road to Big Fog Saddle. Alpine hiking, Big Fog Mountain. Return drive to Missoula. Drive back to Fort Collins.

The detailed record of this trip is online: Rolston – Trail Log 2005 – 2009
<http://hdl.handle.net/10217/41104>

2005-2006. Visiting Distinguished Professor in Environmental Ethics, Yale University, Center for Bioethics. September 2005 - May 2006. Papers, course materials, and syllabus from Environmental Ethics, fall 2005, co-listed as F&ES 375a (Forestry and Environmental Studies), F&ES 887a (graduate level), PHIL 331a (Philosophy), RLST 274a (Religious Studies). EP&E 364a (Environmental Policy and Economics), EVST 331a (Environmental Studies)

Papers, course materials, and syllabus from Genetic Bioethics: Scientific and Religious Perspectives. spring 2006, co-listed as RLST 286 (Religious Studies), RLST 871 (graduate level), FES889b (Forestry and Environmental Studies, graduate level).

2006

2006 "What Is a Gene? From Molecules to Metaphysics," *Theoretical Medicine and Bioethics* 27(2006):471-497.

2006. "Caring for Nature: What Science and Economics Can't Teach Us but Religion Can," *Environmental Values* 15(2006):307-313.

2006. "Disenchanted the Rhetoric: Human Uniqueness and Human Responsibility," ***Conservation Biology*** 20(2006):1576-1578.

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2006. "Generating Life on Earth: Five Looming Questions." Pages 195-223 in F. LeRon Schults, ed. ***The Evolution of Rationality***. Grand Rapids, MI: Wm. B. Eerdmans Publishing Co., 2006.

An abbreviated earlier version, which appeared in print later is:

"Originating Life: Six Big Questions." With questions and commentary. Pages 13-21

In Connie Bertka, Nancy Roth, and Matthew Shindell, eds., ***Workshop Report: Philosophical, Ethical, and Theological Implications of Astrobiology***. Washington, DC: American Association for the Advancement of Science, 2007.

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2006. Review, H. Elliott, ***Ethics for a Finite World: An Essay Concerning a Sustainable Future***, "Finite Ethics: Revolution or Threshold?" in ***Conservation Biology*** 20(no. 5, October 2006):1558-1560.

2006. "Intrinsic Values in Nature." Pages 1-11 in Æsa Sigurjónsdóttir and Ólafur Páll Jónsson, eds. ***Art, Ethics and Environment: A Free Inquiry Into the Vulgarly Received Notion of Nature***. Newcastle. UK: Cambridge Scholars Press, 2006. ISBN 1-84718-039-6. Anthology from the conference: Nature in the Kingdom of Ends," Selfoss, Iceland, 2005.

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2006. ***Conserving Natural Value***, Chapters 6 and 7, translated into German: "Eine Ethik für den gesamten Planeten Gedanken über den Eigenwert der Natur," ***Natur und Kultur: Transdisziplinäre Zeitschrift für ökologische Nachhaltigkeit*** 7(no. 2, 2006):24-40. Originally: ***Conserving Natural Value*** (New York: Columbia University Press, 1994).

2007

2007. "Originating Life: Six Big Questions." With questions and commentary. Pages 13-21

In Connie Bertka, Nancy Roth, and Matthew Shindell, eds., ***Workshop Report: Philosophical, Ethical, and Theological Implications of Astrobiology***. Washington, DC: American Association for the Advancement of Science, 2007. From a symposium, February 21-23, 2003, at the American Association for the Advancement of Science, Washington, DC. The full paper appears as "Generating Life on Earth: Five Looming Questions." Pages 195-223 in F. LeRon Schults, ed. ***The Evolution of Rationality***. Grand Rapids, MI: Wm. B. Eerdmans Publishing Co., 2006.

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2007. "Does Aesthetic Appreciation of Landscapes Need to be Science-Based?" Translated into Finnish. pp. 80-91 in Yrjö Sepänmaa, Liisa Heikkilä-Palo and Virpi Kaukio, eds., ***Maiseman kanssa kasvokkain (Looking toward the Landscape)***. Helsinki: Maahenki Oy, 2007 ISBN: 978-952-5652-02-4.

2007. "Ecology: A Primer for Christian Ethics," ***Journal of Catholic Social Thought*** 4(no. 2, 2007):293-312.

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2007. Festschrift

Preston, Christopher J., and Wayne Ouderkirk, eds., ***Nature, Value, Duty: Life on Earth with Holmes Rolston, III***. Dordrecht, The Netherlands: Springer, 2007.

Contents:

- Katie McShane, "Rolston's Theory of Value," pp. 1-15.
- Keekok Lee, "Biotic and Abiotic Nature: How Radical is Rolston's Theory?" pp. 17-28.
- Christopher J. Preston, "Refining Rolston: A Natural Ontological Attitude towards Natural Values," pp. 29-44.
- Mark Wynn, "In Rolston's Footsteps: Human Emotions and Values in Nature," pp. 45-61.
- Ned Hettinger, "Religion in Rolston's Environmental Ethics," pp. 63-76.
- Lisa Sideris, "Writing Straight with Crooked Lines: Holmes Rolston's Ecological

Theology and Theodicy," pp. 77-101.

--Allen Carlson, "'We see beauty now where we could not see it before': Rolston's Aesthetics of Nature," pp. 103-124.

--Eugene Hargrove, "Rolston on Objective and Subjective Beauty in Nature," pp. 125-142.

--Brenda Hausauer, "Words Gone Wild: Language in Rolston's Philosophy of Nature," pp. 143-165.

--Victoria Davion, "Caring for Nature: An Ecofeminist's View of Rolston on Eating, Hunting, and Genetics," pp. 167-181.

--Clare Palmer, "Rethinking Animal Ethics in Appropriate Context: How Rolston's Work Can Help," pp. 183-201.

--John Lemons, "Nature Diminished or Nature Managed: Applying Rolston's Environmental Ethics to National Parks," pp. 203-219.

--James W. Sheppard and Andrew Light, "Rolston on Urban Environments," pp. 221-236.

--Holmes Rolston, III, "Living on Earth: Dialogue and Dialectic with my Critics," pp. 237-268.

Preliminary drafts, proofs, verifications in archives.

2007. "Ética ambiental," pp. 557ff in **Compêndio de Filosofia**, segunda edição, 2007, tradução de Luiz Paulo Rouanet; São Paulo, SP, Brasil; Edições Loyola, ISBN: 978-85-15-03047-7. "Environmental Ethics," in Nicholas Bunnin and E. P. Tsui-James, eds., **The Blackwell Companion to Philosophy**, 2nd ed. (Oxford: Blackwell Publishers, 2003), pages 517-530, here translated into Portuguese,

2007. "The Future of Environmental Ethics," **Teaching Ethics** (Society for Ethics Across the Curriculum):8(no. 1, Fall 2007):1-27.

Also published in David R. Keller, ed., *Environmental Ethics: The Big Questions* (Chichester, West Sussex, UK: Wiley-Blackwell, 2010), pages 561-574. Archive files are stored in 2007.materials.

2007. "Critical Issues in Future Environmental Ethics," **Ethics and the Environment** 12 (no. 2, 2007):139-142. In a theme section, "The Future of Environmental Philosophy," fifteen philosophers reflecting on the future of the discipline.

2007. "From Beauty to Duty: Aesthetics of Nature and Environmental Ethics," Reprinted, translated by Zhao, Hongmei into Chinese, "Cong mei dao zeren: ziran de meixue yu huanjing lunlixue (From Beauty to Responsibility: Natural Beauty and Environmental Ethics). Pages 24-40 in Hubei University, Hubei Center for Morality and

Civilization, ***Jiazhilun yu lunlixue yanjiu (Axiology and Ethics)*** (Beijing: Chinese Social Science Publishing Co, 2009). ISBN 978-7-5004-7967-3. Originally in Arnold Berleant, ed., ***Environment and the Arts: Perspectives on Environmental Aesthetics*** (Aldershot, Hampshire and Burlington, VT: UK: Ashgate Publishing, 2002), pages 127-141.

Also in Chinese translation in: ***Huan jing yu yi shu: Huan jing mei xue de duo wei shi jiao***, editor/translators Liu, Yuedi, Bo Lin Te (Chinese translation of: Arnold Berleant, ed., ***Environment and the Arts: Perspectives on Environmental Aesthetics***): Chongqing : Chongqing chu ban she (Chongqing Publishing House), 2007. ISBN: 978-7-5366-8509. Also in electronic form: an Apabi e-book.

2007. Serengeti migration, Tanzania. March 3-13, 2007. Trip records, notes, maps, photographs. A million and a half ungainly antelope migrate a thousand miles showing an endurance that belies their clumsy appearance. Tanzanians, among the poorer nations, are quite resolved to keep the wildebeest free on their landscape. Older than human history, today this is the greatest wildlife show on Earth. Lake Manyara, Ngorongoro Crater. Black rhino. Olduvai Gorge. Serengeti National Park. Pitched camp at Nungunungu. Chains of wildebeest on the horizon 1/2 mile long. Drove past 200,000 wildebeest. Leopards. Detailed record of this trip in notebook. Also online at Trail Log 2005-2009: <http://hdl.handle.net/10217/41104>

Also a report in "Exploring the Great Migration of the Serengeti," *Fort Collins Coloradoan*, June 3, 2007. Online at: <http://hdl.handle.net/10217/37330>

Yucatan, Mexico, and Complexity Conference. January 15-25, 2007.

Flights: Denver, Dallas/Ft. Worth, Cancun. guide, Arturo Romano. Good guide and good van. Drove down the coast to Tulum. Lots of plush resorts, invisible from the road, which is 2 km. inland. Much of what you see is a scrubby palm/palmetto forest, not very impressive. Tulum Ruins. In a spectacular location, perched on cliff above the Caribbean. Largest fortified site on the coast, walled around as a fort. Ruins from around A.D. 1200. Visited Well of the Sacrifice, a ceonote (sinkhole filled with water).

Visited Temple of the Wind God, Temple of the Descending God. The most impressive and main building is El Castillo. Visited Temple of the Initial Series. Gran Palacio.

Temple of the Frescoes, later built, around 1450. Tulum. Drove to Los Lirios Hotel. Hotel was on the sea.

Boat trip to Sian Ka'an Biosphere Reserve. (Good day. Good guide, young woman, and knew the birds quite well. 1.6 million acres of biosphere reserve, a UN site, and over 50% is tropical rainforest. Most of this is otherwise unusable swamp. Reached an eco-tourist resort, Cesiak. Long coral reef offshore, with different water colors. This is the second longest coral reef in the world. Boat ride over Campenchen Lagoon, then up a canal (Cayo Venado, "cayo" is "key"), and into Chunyaxche Lagoon, into the upper part of it. Then return through the canal and to Laguna Boca, with an entrance to the sea. Walked through a mud ecosystem, with white mangrove, black mangrove, lots of pneumatophores (wooden fingers sticking up above the water level, now entirely visible above a muddy floor. Reached Laguna Chunyaxche, and rode out into it. Returned to Laguna Campuchén and went south into Laguna Boca Paila, windy ride.

Drove inland for several hours to Chichén Itzá (pronounced chi chen itz uh). North toward Tulum, and then to Coba, then to Chemax, then to Valladolid. Mostly little inhabited country. Farmers here grown some corn, tomatoes, chilis. There were a few commercial places. Houses, like huts often, had thatched roofs. At first a good road, but then got marginal. Then north of Valladolid, reached a good toll road. Toll road was privately built for the Mexican government to move tourists around fast, but the tolls are high and many do not use it. Went into bankruptcy once and the Mexican government had to rescue it.

Then to Pisté, then south a bit to Chichén Itzá. Evening light show. Colored lights on the main temple and a couple others. Chichén Itzá is one of finest Mayan ruin sites in Mesoamerica. Palaces, temples, altars, and largest known ball court in the Mayan world. Went to Sacred Ceynóte, 22 meters down. Sacred well of sacrifice. Used for human sacrifice to rain god Chac.

Reached Cenotes de Dzitnup. Descend long stairway into the cave and there is the lake, some size, with opening to the sky and long tree roots descending to the water. Return to Cancun. Transfer to Iberostar Paraíso Maya Resort.

Conference on Complexity, molecular to cosmic, three days.

Flights home.

The detailed record of this trip is online: Trail Log 2005 – 2009.

<http://hdl.handle.net/10217/41104>

2007. Bahamas. June 18-24, 2007

Flights Denver, Fort Lauderdale. Reached Nassau and Atlantis Hotel.

Powerboat Adventure. Full boat, with local schoolteachers on board celebrating the end of school and too much noisy socializing. Good fast ride to Allen's Cay, a de facto

nature reserve. Laughing gull. Fed iguanas (*Cyclura* spp), grapes on a stick, or, for the more cautious ones, tossed to them 3-4 feet away. The iguana is native on the islands, but these were transplanted here from another island for their safety. Maybe 65 brought here, now maybe 650 on the island. Formerly there were many iguanas, but people ate them. Also the feral pigs eat them. Back on board and ten minutes to Ship Channel Cay, where the company has an installation, dock, sheltered eating area, kitchen, with some staff that stays here. Members of the group, after demonstrations by staff, fed stingrays, big flat fish. They really do not have teeth but eat on their underside. So they put strips of fish on the back of their hand, held them kneeling in the water with their hands in the sand. They stingrays swam by and nibbled up the bits of fish.

They also fed nurse sharks, maybe four feet long, by tossing out fish left over from preparing the meal, grouper. The fish carcass was strung up with a rope through the gills and tossed out, pulled back in to lure the sharks in closer. Some of the sharks were said to be Caribbean Reef sharks. About 12 sharks. Barracuda seen underwater further out, one or two of them, but they did not come in to eat. Lots of sergeant majors, little fish with black stripes, like a military sergeant. On top of the sharks were Remora, a sucker feeder, which attach to the back of the sharks and then glean from what the shark eats. They are not parasitic on the shark directly. These are called commensals.

I took a rocky walk by the sea, while other snorkeled. Got out of sight of the others and some feel for the landscape. Sometime good sand to walk on and sometimes so rocky it made walking difficult. There were cliffs enough to make it difficult to move inland much where I walked. Returned and found an inland trail, with the bushes overarching the pathway. Reached an old well, which the owner said is still functional, but there is a sulphur taste to the water. Tree marked cascarilla tree. *Croton eluteria* = Sweet Wood Bark. Bark used in making liquers. Euphorbiaceae. A feral boar appeared at the back and people were feeding him apples and plums. Four huge tusks (teeth, the canines) (*Sus scrofa*?), two from below, and two uppers curving spirally upward. This is the ancestor of domestic swine. Rained hard on the return to Nassau.

Templeton Foundation event. Flight to Grand Bahama Island. Flew over various islands/cays, typically linear. At times you could see the bottom, often again with linear formations. Reached Freeport Airport, and taxi to Lucaya, virtually the same town but the resort area. Named for the Lucayan Indians, the aboriginals here. Lots of damage from Hurricane Francis in 2004. A Category 3 hurricane on the island for 6 hours. Bahamas has 700 islands, 2,000 cays, 29 inhabited. Grand Bahama is 96 miles long, and 18 miles wide at the widest. Some 60,000 people. 25 national parks, but many of them are quite small.

Met guide for the day, Sam. Forest is tall skinny pines, Caribbean pine = yellow pine (*Pinus caribaea* var. *bahamensis*), with thatch palm as six foot high understory. Bahamas nowhere have much good soil. Some 1,370 species are known from the Bahamas today, with many extinct ones known from fossils, often found in the caves. Too much *Casuarina*, Australian pine. We kayaked on Gold Rock Creek, a red mangrove swamp (*Rhizophora mangle*). There are no rivers or freshwater creeks on

the island. 1,350 plant species in Bahamas. Raccoon. Poisonwood (*Metopium toxiferum*), with shiny leaflets, compound leaf, and easy to recognize. Sumac family. Even standing under it in the rain will give you blisters on exposed skin. Thatch palm (*Thrinax microcarpa* = *morrisii* ?). Leaves are a yard wide. Used for thatch, mats, baskets, rope, shoes, hats. Curly tailed lizards. *Leiocephalus* spp.

Reached Ben's Cave in Lucayan National Park, a small park, 40 acres, about 20 on each side of the road. Hole descends to water; we walked down a ladder fifty feet or so. Buffy fruit bats, couple dozen seen, flying and perched. Not much bigger than insect bats at home. Second longest known underground (and underwater) cave system, after Mammoth Cave in Kentucky. Charted six miles of caves. Some fish in the water in the cave. Saltwater fish, grey snapper = mangrove snapper. They came in from salt water, but once they acclimate to fresh water, they cannot go back to salt water. There is a blind crustacean here, like a swimming centipede, *Speleonectes lucanensis*. Burial Mound Cave. Four skeletons of indigenous people found here in 1986 in a sort of cemetery on the floor of the cave near the water. Skeletons from about 1400 A.D.

Next day, guide Chris Basile. Went by the Dolphin encounter. They have 17 Atlantic bottlenose dolphins in pens, but they are opened up into a larger area, and at times the dolphins can go out to sea, but they return to be fed. Really domestic dolphins, but they make some claim that these are wild dolphins. Owl's Hole, a blue hole, about the size of a small swimming pool across. Water is 40 feet or so down. Barn owls nest here in season. Walked up the beach and found Wilson's plover nest, with splendid broken wing display. Next day, went on birding hike with local bird group. Erika Moultrie-Gates, my host, runs this Kayak Nature Tours, has 25 vehicles, and 12-15 guides. Driving out to Barbary Beach: zenaida dove. Several glimpsed in flight and this excited them. My first Bahamian specialty.

Flight out of Freeport to Nassau. Pretty much "seat of your pants" flying. Nassau to Fort Lauderdale. We flew low and you could see the water. Flew over South Bimini, and you could see the bottom 2-3 miles east of it. Hemingway fished, fought (boxing), and caroused in the Biminis. *The Old Man and the Sea* comes out of this ambience. Fort Lauderdale to Denver, troubled by big thunderstorms and lightning.

The detailed record of this trip is online: Rolston – Trail Log 2005 – 2009:
<http://hdl.handle.net/10217/41104>

2008

2008. Review, Surjeet Kaur Chahal, *Ecology Redesigning Genes: Ethical and Sikh Perspective*. Amritsar, India: Singh Brothers, 2005, in *Environmental Ethics* 30(2008):215-216.

2008. "Naturalizing Values: Organisms and Species." Reprinted, pp. 107-120, 5th edition, Louis P. Pojman and Paul Pojman, ***Environmental Ethics: Readings in Theory and Application*** (Belmont, CA: Thomson Wadsworth, 2008), pp. 107-120. Original article in earlier editions of this anthology.

2008. "From Beauty to Duty: Aesthetics of Nature and Environmental Ethics" Reprinted, pages 325-338 in Allen Carlson and Sheila Lintott, eds., ***Nature, Aesthetics, and Environmentalism*** (New York: Columbia University Press, 2008). ***Originally in Arnold Berleant, ed., Environment and the Arts: Perspectives on Environmental Aesthetics*** (Aldershot, Hampshire and Burlington, VT: UK: Ashgate Publishing, 2002), pages 127-141.

2008. "Mountain Majesties above Fruited Plains: Culture, Nature, and Rocky Mountain Aesthetics," ***Environmental Ethics*** 30(2008):3-20.

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2008. "Is There an Ecological Ethic?" Reprinted in Robin Attfield, ed., ***The Ethics of the Environment*** (Farnham, Surrey, UK: Ashgate, 2008), pp. 13-29.

2008. "Human Uniqueness and Human Dignity." Pages 129-153 in President's Council on Bioethics, ***Human Dignity and Bioethics: Essays Commissioned by the President's Council on Bioethics***. Washington, DC: President's Council on Bioethics, 2008.

Also available online at

:http://www.bioethics.gov/topics/human_dignity.html

Reprinted as pages 129-153 in Edmund D. Pellegrino, Adam Schulman, and Thomas W. Merrill, eds., *Human Dignity and Bioethics*. Notre Dame, IN: University of Notre Dame Press, 2009.

2008. Review, Paul Davies, *Cosmic Jackpot: Why Our Universe is Just Right for Life* (London: Penguin, 2006 and Boston: Houghton Mifflin, 2007) in *Zygon: Journal of Religion and Science* 43(2008):753-756. Paul Davies is a physicist, a cosmologist with philosophical interest. He is unsurpassed in summarizing the results of recent discoveries in physical astronomy and microphysics about the ways in which the characteristics of the universe are fine-tuned for life. "The universe is bio-friendly." He is much challenged by the differences between physics and biology, especially the emergence of mind. We are still left wondering why life elaborates and persists in the midst of its perpetual perishing. Online at: <https://hdl.handle.net/10217/211418>

2008. Photographs, Holmes Rolston III, Taiwan October-November 2008. Album. Six lectures at series of lectures at National Cheng Kung University. Shan-Ping Nature Reserve. National Taiwan Normal University. Yang-Ming Shan National Park. Guandu National Park. Wulai area on fern trip. Taiwan Ecological Stewardship Association. Providence University, at Shalu. Tunghai University. Tainan Theological College and Seminary. TamKang University. Graduate Institute of Marine Biodiversity and Evolutionary Biology, also the Graduate Institute of Marine Biodiversity. National Museum of Marine Biodiversity and Aquarium. Wetland area named Shi-Tsao. Chi-lan, or Cilan Forest Conservation area, cloud rainforest. Confucius tree, said to have sprouted in 551 B.C. National Dong Hua University. Weekend in Hong Kong. Hong Kong Baptist University. National Taiwan University. Taiwan Forestry Research Institute. Hsinchu City Coastline Scenic Area. Details of this trip can be found in Rolston's CSU Library Digital Archives, Trail Log, 2005-2009. Online at: <http://hdl.handle.net/10217/41104>

2008. Photographs, Holmes Rolston III, Lectures, National Chen Kung University, Tainan, Taiwan. October-November 2008.

2008. Galapagos Trip, March 7-16, 2008. Trip records, notes, research, photographs. Flight to Miami, then Guayaquil, Ecuador, then to the Galapagos. Ship: M. V. Evolution. Espanola (= Hood) Island. Bahia Darner Bay, sea lions. Academy Bay. Giant tortoises. Finches. Boobys. Sea turtles. Bartolome. Genovesa Island. Frigate birds. Isabela Island. North Seymour Island. Flight home, over Cuba.

There is a camcorder to DVD record of this trip. Galapagos 2008. DVD. 53 mins. Copy in Rolston Library in Eddy Library in Eddy Building.

A newspaper account of this trip is: "Galapagos: Following in Darwin's Footsteps," *Fort Collins Coloradoan*, June 1, 2008, p. E4, p. E3. Online at: <http://hdl.handle.net/10217/37331>

2008. Morelia, Mexico. Jan 15-21, 2008. Flights Denver, Houston, Morelia. left Denver 11.38 a.m., on Continental thru Houston, arrived Morelia. Trip with guide Ricardo Aguilar, who turned out to be a graduate student at the Universidad Nacional Autónoma de México (UNAM), Morelia Campus, doing a master's thesis on the forms of government of some of the local indigenous peoples at the time of the Spanish conquest. Congenial and knew the landscape, but not the fauna or flora that well.

Drove some 75 miles on rather good roads, through Uruapan. Generally a dry landscape but forested. Doesn't rain here in the winter, but rainy season in summer. Eucalyptus is an invasive and problematic. Climbed some mountains with mostly pines, and other stuff I did not know. Pleasant day, we are at 6,000 feet. Landscape seems mostly unused, maybe abused, though there are numerous avocado orchards, which is profitable here. Cassava on roadsides. Various dry looking flowers in bloom, often yellow composites. Passed several lakes, apparently of volcanic origin. Frequent banana plants, though I did not see any in fruit. Some sugar cane.

Reached trailhead for the Paracutin volcano, driving through a poor looking village with men riding horses. Walked in to the San Juan village destroyed by the volcano, took about three and a half hours in and out (3 km. in, 3 out).. Somewhat rough trail in at times, often eroded by horses – with various people trying to get us to ride their horses in. Then you reach the lava fields and have to walk through that, not too bad. Then the last bit into the ruins of the village which was about as rough as I wanted. Reached a church of twin towers, one tower half down. Chapel 50 yards away also partly survived, but none of the houses. People all got out before the village was covered. Walked out, now mostly uphill, but did o.k.

Parícutin (or Volcáán de Parícutin, spelled unaccented as Paricutin) began as a fissure in a cornfield in 1943, witnessed by the farmer plowing his field. The eruption formed a cinder cone, erupting variously until 1952. Nearby villages including Paricutíin (after which the volcano was named) were buried in lava and ash. Lava scorched 25 square km of land. In 1952 the eruption ended and Parícutin went quiet, attaining a final height of 424 metres. Rarely do volcanologists get to watch the birth, growth, and death of a volcano.

Went to Parque National Eduardo Ruiz, a sort of gardens and nature park. Went to Tzararacua waterfall.

Returned. Keynote speaker at the conference: "Promised Land and Planet with Promise."

Trip to see the Monarch butterflies. Passed through Angangueo, village. Slow bus ride up a steep cobblestone road. Then a rather strenuous walk, eventually reaching over 10,000 feet. Annoyed by vendors. Eventually reached the refuge, El Rosario Sanctuary, with lots of climbing. I did this part with Lisa Sideris. Continued climb on a step path, hundreds of steps. Now we reached an alpine forest and much wetter than below. As I got higher I began to see more butterflies, and eventually reached the main roosting site. There were thousands mostly hanging off the branches of oyamel firs (*Abies religiosa*) quite tall. Other firs nearby were similarly loaded. the total numbers must have been in the tens of thousands, probably reaching 100,000 in sight. Some would open up from their hanging spots and fly around a bit and then settle down again.

The 4,000-mile round trip holds a central mystery that a network of entomologists are trying to solve. The butterfly that goes from Canada to Mexico and partway back lives six to nine months, but when it mates and lays eggs, it may have gotten only as far as Texas, and breeding butterflies live only about six weeks. So a daughter born on a Texas prairie goes on to lay an egg in South Dakota that becomes a granddaughter. That leads to a great-granddaughter born in Canada. In autumn, how does she find her way back to the same grove in Mexico that sheltered her great-grandmother? Monarch larvae live and feed exclusively on members of the milkweed family.

Departure for airport. Houston. Denver.

The detail of this trip is recorded online: Rolston – Trail Log 2005 – 2009
<http://hdl.handle.net/10217/41104>

Flew up to Great Falls from Denver, and Christopher Preston picked me up at airport. Reached 7 Lazy P in time for supper. Main guide: Dave Hovde. Good ride over Route Creek Pass, quite scenic. O.K. on ride down but it got too dusty. Rode through 1988 burn several miles. Good regeneration. 3 deer. Camped at Wrong Creek, their hunting camp, where I have been several times before. This is named Wrong Creek because they misjudged which one went to the divide. Ride over sometimes green grasslands, prairie, Biggs Flats, and rather scenic. Camped at Sulphur Creek by the river, N. Fork Sun River. Hiked up to Sulphur Lick with Dave Hovde and Christopher Preston. Just a dry mudhole but the animals have created it licking for salt. Rode into the Ahorn burn, burned last year, and sometimes spotty but later blitzed the forest.

Ride to Pretty Prairie. Detour on account of construction of the trail and forded the S. Fork of the Sun river twice. Mixed burn. Crossed a good pack bridge over the West Fork Sun River. Now riding a part of the Continental Divide Trail. Camped at West Fork Sun, just west of Reef Creek. Hard rain. Ride up Prairie Reef. A somewhat steep ride and sometimes the horses were breathing heavy. Reached the Lookout Tower, walking the last half mile or so, tying the horses up to the last of the trees. Prairie Reef is a steep cliff on the east and rounded but steep on the west side. 360 degree panorama. Tower is occupied by a woman who is here all summer. Ruins of a plane crash below the tower.

Ride to the Chinese Wall. Excellent grizzly track on the trail. Goat seen silhouetted on top of the Wall. Nice campsite with a view of part of the Wall, but, alas, not enough grass for the horses for us to stay two days here. Disappointing that we have to ride out tomorrow via Moose Creek, losing the best ride of the trip, up the South Wall (my best ride years ago with Smoke Elser). Eight bighorn rams seen halfway up the Wall, two groups of four, all were rams about half curl. Ride out. Ride down Moose Creek, a long one, pretty much a slog. Saw a black bear. Camped again at Sulphur Creek. Ride out over Headquarters Pass. Good regeneration from 1988 fires lower down, but almost none higher up. Long ride through burn, then got to the spectacular area below the pass. Goat at lunch, 100 yards away, later at the head of a snowfield below a steep cliff. Dramatic sight. Total ride about 120 miles. Reached 7 Lazy P. Christopher drove back to Missoula. I got a ride to the Great Falls airport. Flew home. We might have made this trip in 2007, but got burned out. Fires closed the Bob.

The detailed record of this trip is online: Rolston Trail Log 2005 – 2009
<http://hdl.handle.net/10217/41104>

2008. April 2-7, 2008. Zion National Park, following lecture at Utah Valley State College, Orem, Utah. Host: David Keller. Gave talk "Future of Environmental Ethics," then discussion group on my *Genes, Genesis and God*. Drove south, four and a half hours to Zion National Park, staying at Rockville at a home that belongs to David

Keller's father. Home has a fine overlook of Eagle Crags, jagged peaks. Drove into Kolob Canyon part of Zion, high country and a separate area. Next day, went into Zion National Park and spent the day in the main canyon, Zion Canyon, on and off a shuttle. Hiked into the Narrows area, then up to Weeping Rock, then looked around the Great White Throne viewpoint, then walked up an overlook of the Court of the Patriarchs. Later in the day, drove through the Zion-Mt. Carmel Tunnel and up higher. Checkerboard mesa, nicely lighted checkerboard surface toward evening.

The detailed record of this trip is online: Rolston Trail Log 2005 – 2009
<http://hdl.handle.net/10217/41104>

2009

2009. "Human Uniqueness and Human Dignity." Originally in President's Council on Bioethics, ***Human Dignity and Bioethics***, 2008. Reprinted as Edmund D. Pellegrino, Adam Schulman, and Thomas W. Merrill, eds., ***Human Dignity and Bioethics***. Notre Dame, IN: University of Notre Dame Press, 2009. Associated papers and drafts filed in 2008.

2009. Five articles and annotated bibliography in ***Encyclopedia of Environmental Ethics and Philosophy*** (2009), as follows:

2009. "Antarctica." Volume 1, pages 53-58 in ***Encyclopedia of Environmental Ethics and Philosophy***, editors, J. Baird Callicott and Robert Frodeman (Detroit: Macmillan Reference, Gale, 2009).

2009. "Earth Summit." Volume 1, pages 223-225 in ***Encyclopedia of Environmental Ethics and Philosophy***, editors, J. Baird Callicott and Robert Frodeman (Detroit: Macmillan Reference, Gale, 2009).

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2009. "Wetlands." Volume 2, pages 397-400 in ***Encyclopedia of Environmental Ethics and Philosophy***, editors, J. Baird Callicott and Robert Frodeman (Detroit: Macmillan Reference, Gale, 2009).

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2009, "Values Deep in the Woods." Reprinted in Alan Drengson and Duncan Taylor, eds., ***Wild Forestry: Practising Nature's Wisdom*** (Gabriola Island, BC, Canada: New Society Publishers, 2009), pages 12-16. Originally in ***American Forests*** 94, nos. 5 & 6 (May/June 1988):33, 66-69.

2009. "Converging versus Reconstituting Environmental Ethics." Pages 97-117 in Ben A. Minteer, ed., ***Nature in Common: Environmental Ethics and the Contested Foundations of Environmental Policy***. Philadelphia: Temple University Press, 2009. Evaluation of Bryan G. Norton's "convergence hypothesis."

2009. Intellectual Biography. By Christopher Preston, ***Saving Creation: Nature and Faith in the Life of Holmes Rolston III***. San Antonio: Trinity University, 2009.

2009. "Creation and Resurrection." *JP Journal for Preachers* 32(no. 3, 2009):25-32.

2009. Review, "Humanity and its Landscapes: A Green History," review of Edmund Burke III and Kenneth Pomeranz, eds., *The Environment and World History*. (Berkeley: University of California Press, 2009). In ***Global Dialogue*** 12(nos. 1-2) Winter-Spring 2010.

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<http://www.worlddialogue.org/content.php?id=466>

2009. "Species, the Value of." Published: pages 4972-4980 in Hugh LaFollette, ed., *The International Encyclopedia of Ethics* (Bognor Regis, West Sussex, UK: Wiley-Blackwell, 2013). Nine volumes in print. Online ISBN: 9781444367072. DOI: 10.1002/9781444367072.wbiee023 Papers and correspondence. See also 2013.

2009. "Suffering through to Something Higher." Pages 248-258 in James W. Haag, Gregory R. Peterson, and Michael L. Spezio, eds., ***The Routledge Companion to Religion and Science***. London: Routledge, 2012. Research materials in 2009, published in 2012.

2009. Forward to Yang, Yingzi. ***Lunli de Shengtai Xiangdu--Luoersidun huanjing lunli sixian yanjiu (Ecological Orientation of Ethics: A Study in Rolston's Environmental Ethics)***. Beijing: China Social Sciences Press, 2010. ISBN 978-7-5004-8712-8 LC Call Number: GE42.Y56 2010. Forward is both English and in Chinese. Yang Yingzi is a faculty member in philosophy at Hainan Normal University, which is located on Hainan Island, PR China. Papers here, published in 2010.

2009. Zhao, Hong-mei. Mei Xue Zou Xiang Huang Ye: ***Lun Luo Er Si Dun Huan Jing Mei Xue Si Xiang (Aesthetics Gone Wild: On the Thought of Rolston's Environmental Aesthetic)***. Beijing: Chinese Social Science Publishing Co., 2009. ISBN 978-7-5004-8146-1. Rolston's positive analysis of rich meanings in the word "wild" relate to spontaneous creativity and freedom, an important support of, and foil to, artifactual creativity and freedom in culture. Humans emerge from this wildness, and in scientific technology, they increasingly set themselves against wildness, and this leaves them homeless. Rolston contests traditional axiologies of valueless nature. He claims we ought to discover and value wild nature. In aesthetics, this leads Rolston both to make claims about aesthetic value in nature and to distinguish such value from that of art in culture. He also finds that such aesthetic value in nature is understood more deeply if it is science-based. A further dimension is that there is positive aesthetic experience in the struggle for existence in nature. This revises accounts of what we might first think to be ugly in nature. Appreciation of wildness is not the peaceful observation of the picturesque, but requires immersion and experience of life in the wild, immersion of body and of spirit. This does give us a sense of being at home in the wild nature out of which humans evolved. It also moves us from beauty to responsibility for the conservation of nature." Zhao also draws some comparisons and contrasts with Asian thought. The book results from a Ph.D. dissertation at the Department of Philosophy, Wuhan University. The advisor was Chen, Wangheng. Papers here. A copy of the book is in the Rolston Library in the Eddy Library, Colorado State University.

2009. Review, Alister McGrath, ***The Open Secret: A New Vision for Natural Theology*** (Oxford: Blackwell, 2008). In ***Conversations in Religion and Theology*** 7(no. 2, 2009):194-200, and McGrath response, "On Secrets, Lilies, and Daisies," pp. 200-206.

2009. "Celestial Aesthetics: Over our Heads and/or in our Heads? *Theology and Science* 9(2011):273-285. Lecture given at Seventh International Conference on Environmental Aesthetics, March 25-29, 2009, at Valamo Monastery, Heinävesi, Finland. Research papers here, published in English in 2011. Published in Finnish in 2012 as "Taivas päämme: Yllä ja päässämme," pages 162-177 in Yrjö Sepänmaa, Liisa Heikkilä-Palo, and Virpi Kaukio, eds., *Korkea taivas [High Sky]*. Helsinki: Maahenki Oy, 2012.

2009. "Wild Animals and Ethical Perspectives." Pages 603-606 in Marc Bekoff, ed., *Encyclopedia of Animal Rights and Animal Welfare*, 2nd edition. Santa Barbara, CA: Greenwood Press, ABC Clio, 2010. Papers here, published in 2010.

2009. "Science and Technology in Light of Religion." Pages 33-38. Campbell, Heidi A., and Heather Looy, eds., ***A Science and Religion Primer***. Grand Rapids, MI: Baker Academic, 2009.

2009. "Introductory Essay to Ian G. Barbour, *Ethics in an Age of Technology* (Gifford Lectures) , pages 7-8 in Das II, Pranab K., ed., *A Companion to the ISSR Library of Science and Religion*. Cambridge, UK: International Society for Science and Religion, 2011. Papers here, published in 2011.

2009. "Environment" (Theism and Environment). Pages 541-552 in Charles Taliaferro, Victoria S. Harrison, and Stewart Goetz, eds., *The Routledge Companion to Theism* (London: Routledge, 2013).

2010

2010. "Dominion," entry in Berkshire ***Encyclopedia of Sustainability***, Volume 1, ***The Spirit of Sustainability***, ed. Willis Jenkins (Great Barrington, Mass: Berkshire Publishing Group, 2010), pp.110-111..

2010. Hicham-Stéphane Afeissa, Rolston anthology in French, preliminary papers. Postponed to 2013, q.v.

2010. "Science, Religion, and Ecology," in Berkshire ***Encyclopedia of Sustainability***, Volume 1, ***The Spirit of Sustainability***, ed. Willis Jenkins. Great Barrington, Mass: Berkshire Publishing Group, 2010), pp. 353-356.

2010. "The Future of Environmental Ethics. In David R. Keller, ed., *Environmental Ethics: The Big Questions* (Chichester, West Sussex, UK: Wiley-Blackwell, 2010), pages 561-574. Archive files are stored in 2007.materials.

2010. "Care on Earth: Generating Informed Concern," in Paul Davies and Niels Henrik Gregersen, eds., *Information and the Nature of Reality: From Physics to Metaphysics* (Cambridge: Cambridge University Press, 2010), pages. 204-245. Papers and research notes.

2010. "Sustainable Development and Sustainable Biosphere." Pages 91-101 in Jack Lee, ed., *Sustainability and Quality of Life*. Palo Alto, CA: Ria University Press, 2010. Distributed by Ingram. ISBN 978-0-9743472-1-9. Originally a lecture given at the American Association for the Advancement of Science, Annual Meeting, 2009, Chicago: *Our Planet and Its Life: Origins and Futures*.

2010. "Saving Creation: Faith Shaping Environmental Policy." *Harvard Law and Policy Review* 4(2010):121-148. Papers and research notes.

2010. "Greening Education: The Next Millennium." Afterword, pages 191-196 in American Association of State Colleges and Universities, *Stewardship of Public Lands: A Handbook for Educators*. (Washington: American Association of State Colleges and Universities [(AASCU), 2010).

2010. "A Hinge Point of History." Pages 70-74 in Kathleen Dean Moore and Michael P. Nelson, eds., *Moral Ground: Ethical Action for a Planet in Peril*. San Antonio: Trinity University Press, 2010.

2010. Foreword to Yang, Yingzi, *Lunli de Shengtai Xiangdu—Luoersidun huanjing lunli sixian yanjiu* (Ecological Orientation of Ethics: A Study in Rolston's Environmental Ethics). Beijing: China Social Sciences Press, 2010. ISBN 978-7-5004-8712-8. Forward is in both English and Chinese. Revised from and originally a Ph.D. dissertation, Fudan University, Shanghai, China, 2007.

2010. "Madagascar Offers Rare Experience," *Fort Collins Coloradoan*, November 28, 2010, Xplore section, pp. 14-15. Rolston's account of a trip to Madagascar in October 2010. Lemurs, endemic fauna and flora, flying foxes, conservation in Madagascar, loss of biodiversity, forests, eroded landscape, poverty of Malagasy people. Online at: <http://hdl.handle.net/10217/39372>.

2010. Madagascar October 5 – 21, 2010. Trip record, notes, photographs, research, Madagascar natural history, conservation. Flight to Paris, then to Nosy Be Airport, Madagascar. Hell-ville. Flight, Madagascar Air, to Antananarivo (Tana), capital city. Trip by bus to the Queen's Summer Palace. Drive to rainforests on the eastern coast, Perinet and Mantadia National Park. Vakona Lodge. Coucal (large bird). Mantadia National Park. Lemurs and leeches. Diademed sifaka. Tenrec, endemic to Madagascar. Chameleon. Gecko. Perinet Reserve. Nosy Komba Island. Nosy Tanikely. Fruit bats. Lokobe Reserve. Vanilla orchard. Boa constrictor. Morondava, Tulear = Tuliare. Baobab trees. Isalo National Park. Canyon des Makis (of the Monkeys), ringtail lemurs. Verreaux's sifaka. Madagascar periwinkle, used in treatment of leukemia. Mouse lemur. Bought insects in amber. Flights to Paris. U.S. and home.

A detail record of this trip is online at: Rolston Trail Log – 2010-2011
<http://hdl.handle.net/10217/48080> Newspaper account see above.

2010. "Loving Nature: Christian Environmental Ethics." For Gene Outka Festschrift, Yale. Papers and research materials. Published as: "Loving Nature: Christian Environmental Ethics" in *Love and Christian Ethics: Tradition, Theory, and Society*, ed. Frederick V. Simmons with Brian C. Sorrells. Washington: Georgetown University Press, 2016.

2010. "Environment" (Theism and Environment). Pages 541-552 in Charles Taliaferro, Victoria S. Harrison, and Stewart Goetz, eds., *The Routledge Companion to Theism*. London: Routledge, 2013.

2010. "Wild Animals and Ethical Perspectives." Pages 603-606 in Marc Bekoff, ed., *Encyclopedia of Animal Rights and Animal Welfare*, 2nd edition. Santa Barbara, CA: Greenwood Press, ABC Clio, 2010. Papers filed in 2009.

2010. Wilderness Translated, materials for a wilderness website co-ordinated by Marcus Hall, University of Zurich. Entry on Biblical ideas of wilderness.

2011

2011. "The Future of Environmental Ethics," in Anthony O'Hear, ed., *Philosophy and the Environment*, Royal Institute of Philosophy Supplement (Cambridge University Press, 2011), volume 69(no. 1): 1-28. ISSN 1358-2461 EISSN 1755-3555. Materials filed in 2009.

2011. "Preaching on the Wonder of Creation." *JP Journal for Preachers* 34(no. 4, 2011):39-46.

2011. "Celestial Aesthetics: Over our Heads and/or in our Heads? *Theology and Science* 9(2011):273-285. Lecture given at Seventh International Conference on Environmental Aesthetics, March 25-29, 2009, at Valamo Monastery, Heinävesi, Finland. Papers filed in 2009.

2011. Review, Stephen M. Gardiner, *A Perfect Moral Storm: The Ethical Tragedy of Climate Change* (Oxford University Press, 2011). In *Notre Dame Philosophical Reviews*. July 13, 2011. ISSN: 1538-1617. Online at: <http://ndpr.nd.edu/review.cfm?id=24269>

2011. Review, Martin A. Nowak, with Roger Highfield, *SuperCooperators: Altruism, Evolution, and Why We Need Each Other to Succeed*. (New York: Free Press, 2011). In *Zygon: Journal of Religion and Science* 46:1003-1005.

2011. "Divine Presence--Causal, Cybernetic, Caring, Cruciform: From Information to Incarnation." Paper prepared for Niels Henrik Gregersen for anthology on Deep Incarnation. Includes materials from symposium at Helsingør, Denmark, August 25-27, 2011. Published as: "Divine Presence-Causal, Cybernetic, Caring, Cruciform: From Information to Incarnation," pages 255-287 in Niels Henrik Gregersen, ed, *Incarnation: On the Scope and Depth of Christology*. Minneapolis: Fortress Press, 2015.

2011. Das II, Pranab K., ed., *A Companion to the ISSR Library of Science and Religion* (Cambridge, UK: International Society for Science and Religion, 2011). Contains: Rolston, "Introductory Essay to Ian G. Barbour, *Ethics in an Age of Technology* (Gifford Lectures) , pages 7-8, and Rolston, "Introductory Essay to David Landis Barnhill and Rober S. Gottlieb, eds., *Deep Ecology and World Religions: New Essays on Sacred Ground*," pages 345-346. A companion volume to a set of 224 of the leading works in the field, each with a brief introductory essay, which was distributed

to smaller college and theological libraries worldwide. Two of Rolston's books: *Science and Religion: A Critical Survey* and *Genes, Genesis and God* are included in the distributed set.

2011. Robert Kuhn film interview, done in Helsignor, summer 2011, for use in his program *Closer to Truth*, aired on PBS and elsewhere. Correspondence relative to the interview. 2011. Correspondence relative to the publication of "The Future of Environmental Ethics (2010)," pages 53-69 in Jonathan Beever and Nicolae Morar, eds., *Perspectives in Bioethics, Science, and Public Policy* (West Lafayette, IN: Purdue University Press, 2013), Revised, shortened version of "The Future of Environmental Ethics," *Teaching Ethics* (Society for Ethics Across the Curriculum):8(no. 1, Fall 2007):1-27, and in David R. Keller, ed., *Environmental Ethics: The Big Questions* (Chichester, West Sussex, UK: Wiley-Blackwell, 2010), pages 561-574.

2011. Wilderness Babel. Correspondence regarding Rolston contribution to a website with differing words and concepts of wilderness. Rolston article is on Biblical Wilderness. Website based in Switzerland.

Online at: <http://www.environmentandsociety.org/exhibitions/wilderness/midbar-arabah-and-eremos-biblical-wilderness>

2011. "Wolves Pack in Entertainment," *Fort Collins Coloradoan*, April 10, 2011, Xplore section. Rolston's account of tracking and watching wolves in Yellowstone National Park, March 2011. Agate Creek Pack, and yearling pups. Lamar Pack and elk kills. Grizzly eating bison. Alpha 06 female, pregnant, and recollections of her chasing bears from her den. Sixteen years of wolf restoration in Yellowstone. Online at: <http://hdl.handle.net/10217/41093>. Papers in Trail Log, 2011, Coloradoan wolf article.

2011. "Komodo Dragons Highlight Indonesian Adventure," *Fort Collins Coloradoan*, November 6, 2011, Xplore section, C8. Rolston account of a September 2011 trip to see Komodo dragons in the wild, on Komodo and Rinca Islands, Indonesia. Also Orange-footed Scrubfowl, or Megapodes. Online at: <http://hdl.handle.net/10217/46012>.

2011. Singapore, Indonesia, Komodo dragons in the wild, on Komodo and Rinca Islands, Indonesia, Viet Nam, Ho Chi Ming City (= Saigon). Sept. 9-28, 2011. Flights Denver, Chicago, Hong Kong, Singapore. National University of Singapore, as visiting professor for two weeks. Main host: Cecilia Lim. Visited Billyoh Nature Reserve, water monitor lizard, smooth otter. Mangrove boardwalk, mudskippers.

Indonesia and Komodo Dragons. Flew Qatar Airlines to Bali, Denpasar. Airline AIA Star Flight Denpasar to Labuan Bajo, Flores Island, delayed one day on Third World Airlines. Reached Labuan Bajo and met by Kornelis, guide. Boarded big boat named Parewa, the only passenger on the boat. Four and a half hours to Komodo Island and tour with

ranger guide. Komodo dragons are among the rare vertebrate species capable of parthenogenesis. Unfertilized females produce eggs that hatch as males. These dragons are on the IUCN Red list. Protected under CITES World Heritage Site. Saw 8-10 dragons, some quite close. Boat to Rinca Island, sleeping on the deck. Went ashore. Loh Buaya = Dragon Bay. Saw two dozen and dragon's "nests," where they lay their eggs in the sand. Water buffalo and a buffalo wallow area. Megapode = Orange-footed scrubfowl. Return on boat to Labuan Baja. Visit to caves. Flights to Bali and Singapore.

Cambodia and Viet Nam. Flew to Kuala Lumpur, Malasia. Flew to Phenom Penh, Cambodia. Flew over flooded Mekong Delta area on way. With cousins, bus trip to Viet Nam. Crossed the Mekong on a bridge. Long wait for ferry - again crossing the Mekong. Enter Viet Nam and reach Ho Chi Ming City (=Saigon). Flights to Kuala Lumpur and Singapore. Flights to Toykyo and San Francisco and Denver.

The detail of this entire trip is in Rolston – Trail Log 2010 -2011: online at <http://hdl.handle.net/10217/48080>

2011. Science and Religion Seminar, Union Theological Seminary, Richmond, Va. January 23-25, 2011, with Anna Case-Winters.

2011. Science and Religion Seminar, Union Theoloogical Seminary, Richmond, Va. April 10-12, 2011, with Anna Case-Winters.

2011. Seattle University, Seattle, Washington. Rolston lecture: "Three Big Bangs: The Evolution of Matter-Energy, Life Mind." The Catholic Heritage Lectures.

2011. Conservation Leadership. Presentation and workshop, with Jim Barborak, Center for Protected Area Management and Training, CSU Warner College of Natural Resources, Feb. 21, 2011. International students.

2011. American Church in Paris, Lenten Lectures, April 5, 6, 7, on Three Big Bangs: Matter-Energy, Life, Mind. Dr. Scott Herr, Pastor.

2011. Lubbock, Texas. Lubbock Christian University, Scholars Colloquium. Rolston keynote: "Saving Creation: The Importance of Value in Environmental Policy." Stacy Patty, Honors Program, and Andy Laughlin, Animal Science, hosts.

2011. International Society for Environmental Ethics (ISEE) Annual meeting in Nijmegen, Holland, June 14-17, 2011. Martin Drenthen, Radboud University of

Nijmegen, host. Old and New World Perspectives on Environmental Philosophy. Includes excursion to Landscape Garden of Dutch Cultural Landscape Society.

2011. Singapore and South Asia, September. 9-28, 2011. Singapore National University. Main host: Cecilia Lim on faculty there in philosophy. Includes trip to Billyoh Nature Reserve.

2011. Indonesia. September 18-22. Includes trip to Komodo National Park and Komodo dragons. Story in *Coloradoan* newspaper, Nov. 6, 2011 See details in Trail Log for 2011.

2011. Cambodia and Viet Nam, September 23-28. Visit to see Claire and Antoinette Smiley.

2011. Presbyterians for Earth Care, August 31-Sept. 3, 2011, Allenspark, CO. Conference: God's Earth: Too Big to Fail?

2011. Copenhagen. Templeton Foundation symposium: Is God Incarnate in All that Is? Held at Marienlyst Hotel in Helsingor (Elsinore). Includes filming by Robert Kuhn group for his program *Closer to Truth*.

2011. Newcastle University, England., July 19-21, 2011. International Conference on International Future (6th ICEF. Speak of interest was Elinor Ostrom, Nobel Prize winner in economics for her work on how communities can co-operate to solve environmental sustainability problems. With book of abstracts.

2011. July 7. Trip with Christiana Peppard to Rocky Mountain National Park, recent Ph.D. from Yale University in "Valuing Water."

2011. December 10, 2011. StoryCorps Interview by Doug Yeager. Audio online at <http://hdl.handle.net/10217/48079>

2012

2012. A New Environmental Ethics: The Next Millennium for Life on Earth. New York: Routledge, 2012.

2012. "Creative Genesis: Escalating Naturalism and Beyond," *Philosophy, Theology and the Sciences* 1(2014):9-35.

DOI 10.1628/219728314X14946985796871. Invited article in this first issue of a new journal in Europe. Online at: <http://hdl.handle.net/10217/89526>.

2012. "Suffering through to Something Higher." Published in James W. Haag, Gregory R. Peterson, and Michael L. Spezio, eds., *The Routledge Companion to Religion and Science*. London: Routledge, 2012, pages 248-258. See also materials filed in 2009.

2012. "Rights and Responsibilities on the Home Planet," reprinted in Steve Vanderheiden, ed. *Environmental Rights* (Farnham, Surrey, UK: Ashgate Publishing Ltd, 2012), pages 251-279. Article originally published in *Yale Journal of International Law* 18 (no. 1, 1993):251-279.

2012. "Taivas päämme: Yllä ja päässämme. [Celestial Aesthetics: Over our Heads and/or in our Heads]," translated into Finnish. Pages 162-177 in Yrjö Sepänmaa, Liisa Heikkilä-Palo, and Virpi Kaukio, eds., *Korkea taivas [High Sky]*. Helsinki: Maahenki Oy, 2012.

2012. "Environmental Ethics: Values in and Duties to the Natural World." Reprinted in David Schmidtz and Elizabeth Willott, eds., in *Environmental Ethics: What Really Matters, What Really Works, second edition* (New York: Oxford University Press, 2012), pages 66-70. Article originally published in F. Herbert Bormann, and Stephen R. Kellert, *Ecology, Economics, Ethics: The Broken Circle* (New Haven: Yale University Press, 1991), pp 73-96.

2012. "Learning to Think like a Mountain," *Fort Collins Coloradoan*, August 12, 2012, p. C9. Report on a search to find the site where Aldo Leopold shot a wolf and watched the green fire in her dying eyes, learning to think like a mountain, Apache National Forest, Arizona. Thinking big in the big outdoors. Online at:
<http://hdl.handle.net/10217/70409>

2012. Leopold Green Fire site, Apache National Forest, Arizona, July 30-August 2, 2012. Trip record, notes, photographs, maps, research. With Dean Biggins, biologist, black-footed ferret recovery, and Phil Cafaro, CSU philosopher. July 30, drive to Socorro, New Mexico, to see Socorro isopods, and endangered species. July 31, drive to Very Large Array - astronomical configuration of huge antennas, and on to Alpine, New Mexico, and on to Beaverhead and Buffalo Crossing to Caldwell Cabin. Met Don Hoffman, former ranger, who took us to the overlook of Blue River and the Leopold wolf kill site. PS Ranch. Paul Slaughter. August 1, walked the rim area. August 2, long drive home. The detail of this trip is in Rolston Trail Log – 2012, online at
<http://hdl.handle.net/10217/79017>

A presentation based on this trip was made at Utah Valley University, April 4, 2013, files herein. Online at: <http://hdl.handle.net/10217/80888>
For newspaper article see above.

2012. "Morals and Science Education," entry in Richard Gunstone, ed, *Encyclopedia of Science Education* (Dordrecht: Springer Reference, 2015), pp. 663-665. Papers and correspondence. Online at: <http://hdl.handle.net/10217/89523>.

2012. "Endangered Species and Biodiversity: Ethical Issues" and "Animal Welfare and Rights III. Wildlife Conservation and Management" in *Encyclopedia of Bioethics*, 4th edition, Bruce Jennings, Editor in Chief. Macmillan Reference USA/Cengage Learning. Papers and correspondence.

2012. "The Challenge of the New Millennium. Holmes Rolston III Asks Whether Reasoned Behavior [Governing Science] Is Possible in the Midst of Self-Seeking Ideologies and Ancient Appetites," *TPM The Philosophers' Magazine* (London: Royal Institute of Philosophy), Issue 59, 4th Quarter 2012, pp. 30-37. Papers and Correspondence. Online at: <http://hdl.handle.net/10217/80800>.

2012. "Concerns Concerning Biosciences, Human Nature, and Governing Science." Lecture was presented April 13, 2012 at the seminar, Governing Science: Technological Progress, Ethical Norms, and Democracy held at Princeton University, Department of Politics, April 13-14, 2012. Papers and correspondence. Similar material to the preceding entry. This is online video at: <http://hdl.handle.net/10217/70421>.

2012. "Cybernetic and Cruciform Creation." Templeton-Gifford Lectures event, June 1, 2012, London. Gifford Lectures Revisited. Reflections of the living seven Templeton Laureates who also delivered Gifford Lectures. Powerpoint from Rolston lecture and interview. Available in online video: <http://hdl.handle.net/10217/70422>.

2012. "Terrestrial and Extraterrestrial Altruism." Pages 211-222 in Douglas A. Vakoch, ed., *Extraterrestrial Altruism: Evolution and Ethics in the Cosmos* (Heidelberg: Springer, 2014). Reinstated from a failed 2004 attempt, q.v.

2012. Anti-Anthropocene symposium in Denver, October 26-28, 2012. Papers filed under 2013, "The Anthropocene! Beyond the Natural?" in Gardiner and Thompson, eds., *Oxford Handbook of Environmental Ethics*, 2017, see below.

2012. "Why Study Environmental Ethics?" Italian translation. Reprinted from Keller, *Environmental Ethics: The Big Questions* (Chichester, West Sussex, UK: Wiley-Blackwell, 2010), pages 40-41., translated into Italian, pages 72-75 in Matteo Andreozzi,

ed., *Etiche dell'Ambiente: Voci e Prospettive [Environmental Ethics: Voices and Perspectives]* (Milan: LED Edizioni Universitarie, 2012). Online at: <http://hdl.handle.net/10217/79016>.

2012. Gao, Shan. Review of two books in Chinese about Holmes Rolston, reviewed in *Environmental Ethics* 35(2013):505-507.

2012. "Ecology." Rolston, Holmes, III, in Holbrook, J. Britt and Carl Mitcham, eds., *Ethics, Science, Technology, and Engineering: A Global Resource*, 2nd ed., vol. 2, 27-31. Farmington Hills, MI: Macmillan Reference USA, Cengage Learning, 2015. Updated from earlier version, pages 580-583 (vol. 2) in Carl Mitcham, ed., *Encyclopedia of Science, Technology, and Ethics* (Farmington Hills, MI: Macmillan Reference USA, Thomson/Gale, 2005). Online at: <http://hdl.handle.net/10217/86381>.

2012. "Ecosystems, Food, Agriculture, and Ethics." In *Encyclopedia of Food and Agricultural Ethics*, Thompson, Paul B., Kaplan, David M. (eds.) Dordrecht: Springer Science and Business Media, 2014. CSU Library has it online. BJ52.5 .E53 2014eb Pages 541-547.

2012. "Landscape: Landscape from the Eighteenth Century to the Present." Revised for 2nd edition, *Oxford Encyclopedia of Aesthetics*, Michael Kelly, ed, 2014. Online at: <http://hdl.handle.net/10217/89531>.

2012. "Unlimited Love and its Limits." For Stephen G. Post, ed. *Is Ultimate Reality Unlimited Love* (West Conshocken, PA: Templeton Press, 2014), pages 261-264. Papers and correspondence. Online at: <http://hdl.handle.net/10217/86379>.

2012. January 10, 2012. Talk to Kiwanis Club, Fort Collins.

2012. Science and Religion Seminar, Union Theological Seminary, Richmond, Va. January 22-24, 2012, with Anna Case-Winters.

2012. Colorado Christian University, Denver. Talk on "The Good Samaritan and his Genes." Gayle Gunderson, host. In connection with the Templeton placement of a series of books on science and religion there.

2012. March 5, 2012. Colorado Conservation Exchange, Richard Knight.

2012. March 24-25, 2012. University of Denver, National Undergraduate Bioethics Conference.

2012. April 3, 2012. Utah Valley University, Orem, Utah, Center for the Study of Ethics, lecture: "The Anthropocene!! Beyond the Natural?"

2012. Fort Collins Senior Center, Adventure Travel Club. Talk on Madagascar.

2012. June 12-15, 2012. International Society for Environmental Ethics (ISEE) Annual Conference, Allenspark, Colorado.

2012. May 1, 2012. Led honors class, LIFE320, on Ecology, Ethics and Policy. Nicole Vierra, host.

2012. June 1, 2012. London. Templeton event honoring the seven persons who have both given Gifford Lectures and won the Templeton Prize. See also <http://hdl.handle.net/10217/67441> for photo and <http://hdl.handle.net/10217/70422> for video, also "Cybernetic and Cruciform Nature," <http://hdl.handle.net/10217/70422>

2012. May 6, 2012. Talk to National Parks Service and National Parks Conservation Association, Leadership Program, "The Anthropocene: Beyond the Natural." In Fort Collins, sponsored by six universities. Jim Barborak, host, Center for Protected Area Management and Training.

2012. May 3, 2012, Meeting with Mike Whatley, National Park Service.

2012. Science and Religion Seminar, Union Theological Seminary, Richmond, Va. April 15-17, 2012, with Anna Case-Winters.

2012. April 13-14, 2012. Princeton. James Madison Program Conference in American Ideals and Institution, "Governing Science: Technological Progress, Ethical Norms, and Democracy, cosponsored by the Keller Center for Innovation in Engineering Education, the University Center for Human Values, and the Bouton Law Lecture Fund, lecture: "Concerns Concerning Biosciences and Human Nature," and panelist on "Science and the Reduction of Man." Online at <http://hdl.handle.net/10217/70421>

2012. February 16, 2012. "Big Bang: Start Up? Or Setup?" public lecture at Colorado State University, co-sponsored by Department of Philosophy and First Presbyterian Church, with commentary by Roger Culver, CSU astronomer, and Sanford Kern, CSU physicist. Also online at: <http://hdl.handle.net/10217/67468>

2012. December 4, 2012. Class at CSU on Climate Ethics. Katie McShane.

2012. Rolston's Eightieth Birthday Party. November 19, 2012.

2012. October 31, 2012. Lecture and Discussion, "Sustainable Development versus Sustainable Biosphere," in Sustainable Development class of Brian Dunbar, Executive Director, Institute for the Built Environment, Colorado State University.

2012. October 18, 2012. Panelist and commentator, at a showing of Journey of the Universe: The Epic Story of Cosmic, Earth, and Human Transformation, hosted by the School of Global Environmental Sustainability, CSU.

2012. October 16, 2012. St. Andrews University, Laurinburg, N.C., McNair Lecture, on "Three Big Bangs: Matter-Energy, Life, Mind.

2012. October 13, 2012. First Presbyterian Church, Fort Collins, Symposium on "Science and Christian Faith: From Conflict to Connectedness," Rolston workshop on "Cruciform Nature."

2012. Conservation Leadership. Presentation and workshop, with Ryan Finchum, Center for Protected Area Management and Training, CSU Warner College of Natural Resources, October 10, 2011. International students

2012. Fort Collins Senior Center, Adventure Travel Club. Talk on "Green Fire and Thinking Like a Mountain."

2012. August 28, 2012. Center for Collaborative Conservation, Warner College of Natural Resources, seminar on Power and Ethics. Jill Lockett, host.

2013

2013. "The Anthropocene!! Beyond the Natural?" In Steve Gardiner and Allen Thompson, eds., *Oxford Handbook of Environmental Ethics*, Oxford University Press, 2017. Papers, including some three dozen research papers, and correspondence. Online at: <http://hdl.handle.net/10217/178714>. Includes "Welcome to the Anthropocene!! Babel?," prepared for *The Christian Century*, and failed. Includes papers from Anti-Anthropocene symposium in Denver, October 26-28, 2012.

2013. "Rediscovering and Rethinking Green Fire." Lecture given at Utah Valley University, April 4, 2013. Powerpoint materials here. Text materials and correspondence. Lecture video online at: <http://hdl.handle.net/10217/80888>. Supporting photographs on W drive video files, including photos of Leopold new on the Utah job and his rifle. Letter to his mother verifying the wolf kill. Published in: *Environmental Ethics* 37(2015):45-55. See abstract under 2015.

2013. "After Preservation: Dynamic Nature in the Anthropocene." Papers and correspondence. Published as "After Preservation? Dynamic Nature in the Anthropocene." Pages 32-40, 202-203. in Minteer, Ben A., and Stephen J. Pyne, eds., *After Preservation: Saving American Nature in the Age of Humans*. University of Chicago Press, 2015. Online at: <http://hdl.handle.net/10217/89528>.

2013. Jacquet, "The Anthropebo Effect," refereed for *Conservation Biology*.

2013. Hicham-Stéphane Afeissa, anthology of Rolston papers, French translation, resumed. Correspondence.

2013. "Environmental Ethics for Tomorrow: Sustaining the Biosphere." Papers and correspondence. Published as "Environmental Ethics for Tomorrow: Sustaining the Biosphere" in Helen Kopnina and Eleanor Shoreman-Ouimet, eds., *Sustainability: Key Issues* (New York: Routledge, Earthscan, 2015), pp. 347-358. Online at: <http://hdl.handle.net/10217/171442>.

2013. "National Parks - Keeping Life Natural." In Andrew Light and Benjamin Hale, eds., *Routledge Companion to Environmental Ethics*. Routledge. Publication forthcoming.

2013. "Foreword" to Ricardo Rozzi, Steward T. A. Pickett, Juan J. Armesto, Clare Palmer, J. Baird Callicott, eds. *Linking Ecology and Ethics for a Changing World: Values, Philosophy, and Action*. Springer, Published as : "Foreword" in Ricardo Rozzi, S.T.A. Pickett, Clare Palmer, Juan J. Armesto, and J. Baird Callicott, eds., *Linking Ecology and Ethics for a Changing World: Values, Philosophy, and Action*. (Dordrecht, Netherlands: Springer, 2013), pp. vii-xi. Online at: <http://hdl.handle.net/10217/171440>.

2013. "Loving Nature: Christian Environmental Ethics." Papers and correspondence. Published as: "Loving Nature: Past, Present, and Future," *Interpretation: A Journal of Bible and Theology* 70(#1, 2016) 34-47. Edited by Anna Case-Winters. Shortened version of an essay prepared in 2010 for Frederick Simmons and Brian Sorrells, eds., anthology festschrift for Gene Outka, Yale University. Longer version published as: "Loving Nature: Christian Environmental Ethics" in *Love and Christian Ethics: Tradition, Theory, and Society*, ed. Frederick V. Simmons with Brian C. Sorrells. Washington: Georgetown University Press, 2016.

2013. Sandler, Ronald, "The Ethics of Reviving Long-Extinct Species>' Referees report., March

2013. Interview by Theo Horesh, published March 1, 2016, as *The Inner Climate: Global Warming from the Inside Out*. Bauu Institute.

2013. "Wolves: Keystone Predators Back on the Landscape." Short article written for Gao, Shan, for some newsletter of hers.

2013. Review of George B. Schaller, *Tibet Wild: A Naturalist's Journeys on the Roof of the World*. In *Biological Conservation* 168(2013):67-68.

2013. Endorsement for Robin Attfield, *Environmental Ethics: An Overview for the Twenty-First Century*, 2nd ed. (Oxford: Polity Books. 2014).

2013. Endorsement, "The Sanctity of Life in Anguish," for Robert Crumby, *So Falls a Sparrow: Ethical Medical Decisions at the Bedside with and for the Sole Good of the Patient*. 2014.

2013. Endorsement for Margaret Robinson, *Sustainability, Principles and Practice*. Routledge: Earthscan. 2014. Used just before the contents page.

2013. "Consciousness, Environmental Ethics and Science-Religion Dialogue." Rolston interviewed by T. D. Singh and J. N. Srivastava, on the occasion of his winning the Templeton Prize (2003). In *Savijñānam (Journal of the Bhaktivedanta Institute)*, theme issue: *Scientific Exploration for a Spiritual Paradigm*, vol. 8 (2013)1-18 (Calcutta, India).

2013. Thorpe, Tim, Master's student, University of Edinburgh, under Emily Brady. He wrote a thesis: Thorpe, Timothy M., *The Political Dimensions of Environmental Ethics, Rolston's Theory of Value: A Case Study*. Master's Thesis, MSc., Environment, Culture & Society, University of Edinburgh, 2013. A philosophical analysis of the political dimensions of environmental ethics. The language and conceptual apparatus employed is critical in its capacity to engage values of concern in policy. The concept of natural value developed by Holmes Rolston III at various levels—humans, animals, plants, species, ecosystems, Earth--is politically problematic, bringing both risks and opportunities. A copy of his thesis is in the Rolston Library in the Eddy Library. Correspondence.

2013. Maria Jose Varandas, "The Land Aesthetic, Holmes Rolston's Insight." Article by a Portuguese woman philosopher that I read and edited for her, also her revised version in January 2014. Published as: Varandas, Maria José, "The Land Aesthetic: Holmes Rolston's Insights," *Environmental Values* 24(2015):209-226. Rolston and J. Baird Callicott are both inspired by Aldo Leopold. Rolston emphasizes the distinctive character of natural beauty and gives reasons to understand such beauty as

foundational for acting morally in the natural world. In this respect his account is superior to that of Callicott, whose account is more anthropogenic.

2013. Refereed Aristotelis Santas, "Aristotelian Ethics and Biophilia," for *Ethics and the Environment*.

2013. Carlo Enrico Lombardo, student at Katholieke Universiteit, Leuven, Belgium. Paper in English: "Values and Information in Rolston's Environmental Ethics." 15 pages. Faculty Mentor: Ullrich Melle.

2013. "Environment" (Theism and Environment). Pages 541-552 in Charles Taliaferro, Victoria S. Harrison, and Stewart Goetz, eds., *The Routledge Companion to Theism* (London: Routledge, 2013). Papers filed in 2009. Publication in 2013.

2013. "Biodiversity," pages 244-255, in Lori Gruen, Dale Jamieson, and Christopher Schlotmann, eds., *Reflecting on Nature: Readings in Environmental Ethics and Philosophy*, 2nd ed. (New York: Oxford University Press, 2013). Reprinted from "Biodiversity and Endangered Species," in Dale Jamieson, ed., *A Companion to Environmental Philosophy* (Oxford: Blackwell Publishers, 2001, 2003), pp. 402-415.

2013. "Species, Value of," pages 4972-4980 in Hugh LaFollette, ed., *The International Encyclopedia of Ethics* (Bognor Regis, West Sussex, UK: Wiley-Blackwell, 2013). Nine volumes in print. Online ISBN: 9781444367072. DOI: 10.1002/9781444367072.wbiee023
Online at: <http://hdl.handle.net/10217/181771> See also 2009.

2013. "The Future of Environmental Ethics (2010)," pages 53-69 in Jonathan Beever and Nicolae Morar, eds., *Perspectives in Bioethics, Science, and Public Policy* (West Lafayette, IN: Purdue University Press, 2013), Revised, shortened version of "The Future of Environmental Ethics," *Teaching Ethics* (Society for Ethics Across the Curriculum):8(no. 1, Fall 2007):1-27, and in David R. Keller, ed., *Environmental Ethics: The Big Questions* (Chichester, West Sussex, UK: Wiley-Blackwell, 2010), pages 561-574. See above.

2013. "Great Dismal Swamp Is not a Dismal Place at all," *Fort Collins Coloradoan*, September 29, 2013, page C11. Paddling the Great Dismal Swamp along a "ditch" (canal) dug by the slaves of George Washington, in southeastern Virginia. Lake Drummond, natural and cultural history, folklore, biodiversity in the swamp, first settlers. Online at: <http://hdl.handle.net/10217/80604>.

2013. Great Dismal Swamp. Lake Drummond. July 28-August 3, 2013. Trip records, file materials, natural history, conservation. Trip details are under Trail Log, 2013: online at <http://hdl.handle.net/10217/82162> Newspaper account, see above.

2013. "Searching for Tigers in India," *Fort Collins Coloradoan*, April 28, 2013, p. C8. Rolston spots two tigers in the wild, one in Ranthambore National Park, one in Kanha National Park in India. Other wildlife seen: leopard, cheetal, sambar, barasinga, nilgai, gaur, wild pigs, jackals, Sarus cranes, bar-headed geese. Conservation of tigers in India. Online at: <http://hdl.handle.net/10217/79013>.

2013. Tigers in India. February 23-March 9, 2013. Trip record, notes, maps, photographs, research. Circumpolar flight to Delhi, India. Train to Sawal Madhopur, and to Tiger Den Resort. Ranthambore National Park, and nearby sanctuaries, the Salai Manning Sanctuary and the Kail Devi Sanctuary. Frequent companion Thomas O'Shea, wildlife biologist, Glen Haven, Colorado. Brief spotting of tigress is T-16, named Machli, a famous tiger, and good breeder. Leopards. Keoladeo Ghana National Park. Taj Mahal. Kanha National Park. Excellent spotting of tiger. 123 bird species seen. Flight home. A detailed record of this trip is online at: Trail Log, 2013, <http://hdl.handle.net/10217/82162>

2013. Rolston attending International Society for Environmental Ethics, meeting at the University of East Anglia, Norwich, England, June 12-19, 2013. Trips in adjacent wetlands and countryside. Norfolk broads, trip to wildest areas of East Anglia, Covehite and protected shoreline, Staverton Park, a forested area, and "The Thicks." File materials herein.

Trip details are online: Trail Log, 2013, <http://hdl.handle.net/10217/82162>

2013. Evaluation of book proposal by David Keller, Utah Valley University, (deceased in 2013) for Springer. *Ecology and Environmental Justice*.

2014

2014. "Feeding People vs. Saving Nature." Reprinted in Hugh Lafollette, *Ethics in Practice*, 4th ed. (Oxford: Wiley-Blackwell, Ltd, 2014), pages 583-591.

2014. "The Promise and Problems of Religious Ecologies," Rolston review of John Grim and Mary Evelyn Tucker, *Ecology and Religion* (Washington: Island Press, 2014). Published in *Bioscience* 64(no. 5, 2014):456-458.

2014. "A Hinge Point of History," Rolston short entry in Todd E. MacLean, ed., *Global Chorus: 365 Voices on the Future of the Planet* (Toronto: Rocky Mountain Books, 2014).

2014. Refereed mss., Simkins, "The Bible and Anthropocentrism: Putting Humans in Their Place." for *Dialectical Anthropology*.

2014. "Greening the Gods," conference at Cambridge University, March 18-19, 2014. Correspondence about paper I gave there, which was same as 2013. "Loving Nature: Christian Environmental Ethics." Published as: "Loving Nature: Past, Present, and Future," *Interpretation: A Journal of Bible and Theology* 70(#1, 2016) 34-47. Online at: <http://hdl.handle.net/10217/181775>. Shortened version of an essay prepared in 2010 for anthology festschrift for Gene Outka. There is a file folder, but there are no Trail Log records of this trip.

2014. Oxford Bibliography – “Environmental Ethics.” Ellen Wohl, editor. Oxford Editor, Stefani Wexler. Online bibliography. Publication failed. They had made double assignments unawares.

2014. “Why Wilderness?” Rolston talk at the 2014 Mansfield Conference, “The Storied Past, The Troubled Future: The Imperative of Wilderness at 50 Years,” held at the University of Montana, Missoula, September 10-12. Videorecorded and produced as “Why Wilderness?” online at <http://hdl.handle.net/10217/86383>. Also on DVD, copies in paper archives and in Rolston Library in Eddy Library, and in Colorado State University Library, GE42 .R65 2014.

2014. “Placing, Displacing, Replacing the Sacred: Science, Religion, and Spirituality.” Rolston response to Lisa H. Sideris, “Science as Sacred Myth? Ecospirituality in the Anthropocene Age,” originally published in Ricardo Rozzi, S.T.A. Pickett, Clare Palmer, Juan J. Armesto, and J. Baird Callicott, eds. *Linking Ecology and Ethics for a Changing World* (Dordrecht: Springer Science+Business Media, 2013), and reprinted as a target article in *Journal for the Study of Religion, Nature, and Culture*. Published as “Placing, Displacing, Replacing the Sacred: Science, Religion, and Spirituality,” *Journal for the Study of Religion, Nature and Culture* 9(no. 2, 2015):199-205. Online at: <http://hdl.handle.net/10217/171441>. See also under 2015.

2014. Letter for *Staunton (VA) News Leader*, in re the proposed Dominion Resources pipeline, and its environmental effects in the Valley of Virginia. Published as: “Pipeline Will Degrade Land that We Love,” *The News Leader* (Staunton, Virginia), August 2, 2015. P 5B. A proposed natural gas pipeline running through the Valley of Virginia and Rolston’s ancestral landscape raises concerns about scarring and degrading a much-loved landscape, also about the safety of a huge steel pipeline in limestone country with many caves and sinkholes. The plans of Dominion Resources, who wish to build the line, will degrade the Old Dominion. Online at: <http://hdl.handle.net/10217/167565>

2014. Endorsement for Robin Attfield, *The Ethics of the Global Environment*, 2nd. ed. (Edinburgh: Edinburgh University Press, 2015).

2014. Endorsement for Brian G. Henning, *Riders in the Storm: Ethics in an Age of Climate Change* (Winona, MN: Anselm Academic, 2015).

2014. “Sustainable Development vs. Sustainable Biosphere.” Talk recorded on digital file for 2014 Australian Academy of Science Fenner Conference on the Environment, October 2-3, University of New South Wales. Haydn Washington, chief organizer. Copy on DVD in paper archives, also a copy in Rolston Library in Eddy Library. Shortened version of what was originally a videotaped lecture given at the American Association for the Advancement of Science, Annual Meeting, 2009, Chicago: *Our*

Planet and Its Life: Origins and Futures. 2010. "Sustainable Development and Sustainable Biosphere." That talk is online at: <http://hdl.handle.net/10217/40518>. Longer version published as pages 91-101 in Jack Lee, ed., *Sustainability and Quality of Life*. Palo Alto, CA: Ria University Press, 2010. Distributed by Ingram. ISBN 978-0-9743472-1-9.

2014. Endorsement for Paul Thompson, *Field to Fork: Food Ethics for Everyone* (New York: Oxford University Press, 2015).

2014. Iran Interview. Interview via e-mail with Mohammad Javad Ostadi for publication in Iran.

2014. "Feeding People vs. Saving Nature." Reprinted in Hugh LaFollette, ed., *Ethics in Practice: An Anthology*, 4th edition (Oxford: Wiley-Blackwell, Ltd, 2014), pages 583-591.

2014. "Wild Horses, Vast Desert : Mongolia's Cultural and Natural History Both Unique on Earth," *Fort Collins Coloradoan*, October 9, 2014, sec. C, Xplore. Rolston travels to Mongolia to see Przewalski's horses, or takhi, the only truly wild horse, never domesticated, once extinct in the wild, and now restored to the Mongolian landscape from horses that were captive in European zoos. This distinct species has two more chromosomes than domestic horses. It became extinct in Mongolia in the 1960's and was restored by Dutch veterinarians in the 1990's, after Mongolia became independent, overthrowing the Communists. Rolston finds two groups, stallions with mares, one foal, a dozen takhi. Also, argali, the largest most robust bighorn sheep. Visit to Gobi desert. Online at: <http://hdl.handle.net/10217/86382>. Papers in Trail Log 2014, Mongolia.

2014. Trip records, papers, notes, maps. CD of photos. CD of Mongolia article in Coloradoan newspaper. Research materials. Photographs of Przewalski's horses, or takhi, the only truly wild horse, once extinct in the wild, and now restored to the Mongolian landscape. The only surviving prehistoric horse. Hustai Ger Camp, Hustain Nuruu National Park, and experiences of finding and watching the horses. Visit to a ger (portable, round tent covered with skins or felt and used as a dwelling) and milking domestic horses, drinking horses milk. Argali sheep, Marco Polo sheep. Genghis Khan Equestrian Statue. Gorkhi-Terelj National Park. Gobi desert. Mongolian (or Bactrian) camels, two humps. Saksaul forest. Dinosaur eggs.

The detailed record of this trip is online: Rolston – Trail Log 2014
<http://hdl.handle.net/10217/89525>

2015

2015. "Messaging Morality: Ethics across the Cosmos." Notes and correspondence. Rolston lecture at a SETI (Search for Extraterrestrial Intelligence) workshop, February 14, 2015, Mountain View, California. When we consider active SETI, or METI, transmitting messages that might be received by extraterrestrial intelligence, what might we say about human morality? We can ask what ethics, if any, is an inclusive global ethics. Consider the *Universal Declaration of Human Rights*. Messages will more likely be understood if kept short and basic. Seek peace! Be fair! Tell the truth! Keep promises! Some, such as the Golden Rule, might be pictured. Dimensions of human ethics are Earthbound: Be sustainable! Do not commit adultery! But, like basic laws of science, deeper principles will be shared with extraterrestrials. Human ethics has been socially constructed across cultural histories, originating with prophets, seers, saviors, but, again like science which has a history, our more fundamental moral insights, if not true in all possible worlds, are true elsewhere in our universe. Taking a longer view, considering transit millennia, we should transmit truths that are both profound and permanently true.

2015. "Rediscovering, Rethinking Green Fire." *Environmental Ethics* 37(2015):45-55. Lecture given at Utah Valley University, April 4, 2013. Aldo Leopold shot a wolf a hundred years ago, the most iconic wolf kill in conservation history, a shooting now historically confirmed, which three decades he elevated into his green fire metaphor and symbol. There are tensions. Was Leopold a hypocrite? He spent the rest of his life hunting and trying to produce more game to kill. Thinking like a mountain, thinking big in the big outdoors, there is a dramatic shift of focus from a dying wolf's eyes to a land ethic. Thinking big enough, globally, Leopold's saving wolves, or wilderness, or game management seems simplistic and parochial before global warming or environmental justice. Still, Leopold is on a moral frontier. See files and trip details under 2013.

2015. "Holmes Rolston III 1932-," revised version, Weir, Jack, "Holmes Rolston III 1932-," in Palmer, Joy A., ed. and David E. Cooper and Peter Blaze Corcoran, advisory eds. *Fifty Key Thinkers on the Environment*, pages 291-297. London: Routledge, 2018.

Online at: <http://hdl.handle.net/10217/37719>

2015. *Between Biology and Buddhism*. Book mss. refereed for Harvard University Press.

2015. Chinese Environmental Aesthetics. Papers and correspondence. Wuhan, China, May 18-26, 2015, at the Environmental Aesthetics and Beautiful China International Conference, May 19-24, 2015. Papers, trip records, photographs, research, also includes a trip to Three Gorges Dam. Flight Detroit to Beijing, then Wuhan. May 24, Train to Yi Chang Dong, via through Fairy Stream Tunnel. Boat trip on the lake to Xi Ling Gorge. Bus tour viewing the dam. Flights home through Beijing and Detroit.

Detailed record of this trip is online: Rolston – Trail Log – 2015
<http://hdl.handle.net/10217/171109>

2015. *Environmental Aesthetics in China: East West Dialogue*. 2015. 58 minutes. Lecture by Holmes Rolston III presented in Online as streaming media at: <http://hdl.handle.net/10217/1727731>. Also published in Chinese. *Journal of Poyang Lake*, copy in these files. With some supplementary materials. Online at: <http://hdl.handle.net/10217/181772> Art and Nature: Chinese Landscape as a Work of Art? 2. Urban, Rural, Wild: Are the Chinese Three Dimensional Persons? 3. Residence in Place: Is China Like No Place Else on Earth? 4. Ugly? What on Chinese Landscapes Is Ugly? 5. Environmental Aesthetics and Ecological Aesthetics: Beautiful China, Ecosystemic China? 6. Environmental Aesthetics and Environmental

Policy: Beautiful China, Saving China? Chinese text followed by English text of Rolston paper is online at: <https://hdl.handle.net/10217/192316>.

A newspaper account is: "The Yangtze's peril, promise: exploring above and below China's Three Gorges Dam," *Fort Collins Coloradoan*, August 20, 2015, Xplore sec. Online at: <http://hdl.handle.net/10217/167459>

See also under 2016. "An Interview with Professor Holmes Rolston," by Jie Shu, Wuhan, China, during the conference, Environmental Aesthetics and Beautiful China, May 20-23, 2015.

2015. "An Ecological Pope Challenges the Anthropocene Epoch." Papers and correspondence. Published in *For Our Common Home: Process-Relational Responses to Laudato si'*, eds. John B. Cobb, Jr., and Ignacio Castuera. Anoka, MN: Process Century Press, 2015. Pages 52-57. Online at: <http://hdl.handle.net/10217/167458>

2015. "Democratic baboons." Letter submitted to *Science* with critical comment on an article they had published under the title "Democratic baboons." Publication failed.

2015. "Leading and Misleading Metaphors: From Organism to Anthropocene." Article in a Festschrift for Carolyn Merchant. Publication pages 103-116 in Kenneth Worthy, Elizabeth Allison, and Whitney A. Bauman, eds. *After the Death of Nature: Carolyn Merchant and the Future of Human-Nature Relations*. New York and London: Routledge, 2019. Online at: <https://hdl.handle.net/10217/192937>

2015. *Three Big Bangs: Matter-Energy, Life, Mind: Are We the Biggest?* mp4 file. Lecture at Westminster Canterbury Richmond (a retirement home), Richmond, Virginia. October 20, 2015. 1 hour 18 minutes. DVD disk. In our lifetimes, we who are senior citizens have learned from the recent discoveries of scientists some startling facts about the universe. At the primordial big bang, matter-energy appears, with the remarkable capacity to generate heavier elements and complexity. Life explodes on Earth, with DNA discovering, storing, and transferring information, escalating biodiversity and biocomplexity. The human genius is radically novel, hyper-immensely complex. The mind that each of us has is by far the most complex thing known in the universe. Living at the center of such caring, loving intelligence we can and must wonder about the big questions. Is there sacred Logos in, with, and under such breakthrough creativity? What have we learned in our lifetimes that helps us to answer the question whether we are the biggest?

2015. "Placing, Displacing, Replacing the Sacred: Science, Religion, and Spirituality," reply to Sideris, reprinted in *Journal for the Study of Religion, Nature and Culture* 9(no. 2, 2015):199-205. Online at: <http://hdl.handle.net/10217/171441>. See entry in 2014, previous publication.

2015. "The Ethics of the Urban Waste Wicked Problem: Issues and Moral Challenges of Singapore's Semakau Landfill." Refereed for *Landscape and Urban Planning*.

2015. Speaking for Nature: Political Representation and the Challenge of Rights, Book mss. Refereed for Palgrave Macmillan.

2015. *Between Biology and Buddhism*, Book mss. Refereed for Harvard University Press.

2015. Endorsement for Peter G. Brown & Peter Timmerman anthology, *Ecological Economics for the Anthropocene*, Columbia University Press.

2015. Endorsement for Paul G. Harris (Hong Kong), *Ethics, Environmental Justice and Climate Change*. Edward Elgar, 2016.

2015. John Mustol, ongoing materials advising Ph.D. candidate at Fuller Theological Seminary.

2015. ISEE Conference, Kiel, Germany, Environmental Ethics between Action and Reflection.

July 23-25, 2015. Christian-Albrechts-Universität Kiel. Flights Denver, Newark, Hamburg. Kielus shuttle to Kiel. Conference. Conference Booklet. Field trip. Dasenmoor. One of the last bogs of Schlenwig/Holstein. Field trip to salt marshes and North Sea. Wadden Sea, an intertidal zone on UNESCO's World Heritage List, the world's largest continuous mud flats. Frisian Islands. Walk on mud flats several miles. Westhever Lighthouse. Many birds. Dangers from climate change. Flights home via London with confusions.

The detailed record is in Rolston: Trail Log – 2015. <http://hdl.handle.net/10217/171109>

2016

2016. "Religion, Science, and the Future," presentation failed, session was canceled. Prepared for Bron Taylor, University of Florida, Gainesville, Jan. 14-17, 2016.

2016. "Technology and/or Nature: Denatured/Renatured/Engineered/Artifactual Life?" Online media at: <http://hdl.handle.net/10217/172774>. Lecture at Texas A&M University, February 15, 2016. mp4 file and DVD disk. In our high-tech world, do we live at the end of nature? Is the technosphere replacing the biosphere? Can humans control their genetically inherited Pleistocene appetites in an Anthropocene Epoch? Is experience of the urban, rural, and wild a three-dimensional life, with life focused on fewer dimensions under-privileged? Do we, ought we, wish to live on an engineered planet? Would this fulfill human destiny or display human arrogance, failing to embrace our home planet in care and wonder? True, we must become civilized. Be a resident on your landscape. True, the future holds advancing technology. But equally: we do not want to live a de-natured life, on a de-natured planet. Online text: *Environmental Ethics* 2015:37:45-55, at: <http://hdl.handle.net/10217/178142>.

2016. "One Health - Eco-Health." Lecture at National Taiwan University, Risk Society and Policy Research Center, College of Social Science, June 8, 2016. 2 hours, 26 minutes. mp4 file. Online media at: <http://hdl.handle.net/10217/178135> There is only one world and only one health. Health effects ripple throughout the web of life. Human health requires thinking in ecological contexts, increasingly in more global ones. This further suggests more inclusive ethical concerns: global, international, and interspecific, beyond the immediate protection of human individuals from disease. Developed countries, which may have thought themselves protected with their high technologies and advanced medical systems, discover they are still linked with health, human and animal, in the developing world, even in wild nature, and vulnerable to disruptions there, to which they may also be contributing.

Thinking of health must consider our entwined destiny with our landscapes. Ecology is strikingly like medical science. Both are therapeutic sciences. Ecologists are responsible for environmental health, which is really another form of public health. Health is just as much "skin-out" as it is "skin-in." It is hard to live a healthy life in a sick environment.

2016. NTDTV Interview. Holmes Rolston is interviewed by a reporter for NTDTV, New Tang Dynasty TV, about pollution from Formosa Plastics at How-May-Li wetland, Taiwan, on June 3, 2016. From NTDTV newscast. 2 mins. 49 seconds. mp4 file and DVD disk. Online media at: <http://hdl.handle.net/10217/178140>.

2016. Trip to Taiwan, May 30-June 11, 2016. Records, notes. Vancouver, B.C., then business class to Taiwan. Welcome and gift of painting of six roses. Taiwan Theological Seminary. Yulin. Formosa Plastics and pollution. How-May-Li wetland. Interviewed by a TV reporter. NTDTV. New Tang Dynasty TV, see above. Ho-Ping Church in Taipei. Shung-Lien Church, Taipei. Dongshan River Ecoark Park on the Dongshan River. National Tung-Hua University, at Hua-Lien. Taipei and meeting with Vice-President of Taiwan, Chen Chien-Jen, an epidemiologist known for his influential studies on the dangers of arsenic and hepatitis as well as his handling of the SARS outbreak in 2003, studied at Johns Hopkins University in Baltimore. National University of Taiwan, and lecture there, see above. East coast, and to Yehliu Geopark. Stone Trench of Laomei, and Green Reef. North Coast of Guanyinshan National Scenic Area. Yang-Ming Shan National Park, near Taipei. Flights home via Vancouver, B. C.

The detail of this trip is online: Rolston Trail Log – 2016.
<http://hdl.handle.net/10217/181779>

2016. "Loving Nature: Christian Environmental Ethics" in *Love and Christian Ethics: Tradition, Theory, and Society*, ed. Frederick V. Simmons with Brian C. Sorrells. Washington: Georgetown University Press, 2016. Online at: <http://hdl.handle.net/10217/181774>

2016. "Loving Nature: Past, Present, and Future," *Interpretation: A Journal of Bible and Theology* 70(#1, 2016) 34-47. Online at: <http://hdl.handle.net/10217/181775>,

2016. "Sustainable Development vs. Sustainable Biosphere." Pages 195-199 in *A Future Beyond Growth: Towards a Steady State Economy*, eds. Haydn Washington and Paul Twomey. London: Routledge, Earthscan, 2016. Shorter version of the above, given at the 2014 Fenner Conference on the Environment, Australian Academy of Sciences, University of New South Wales, Sydney.

2016. *Terre objective: Essais d'éthique environnementale*. Volume of collected essays by Holmes Rolston published by Éditions Dehors, a French publisher. The translators

are Pierre Madelin and Hicham-Stéphane Afeissa. Eight essays, featuring Rolston's arguments about objective value on natural landscapes, and how this is needed, beyond resource values for people, in environmental ethics. ISBN-13: 978-2367510132.

2016. Refereed mss. for BioScience, Batavia and Nelson, "Heroes or Thieves? Examining the Ethical Grounds for Lingering Concerns about New Conservation."

2016. Cobb, John et al, seminar online with an Eco-Civ study group from several colleges at Claremont, California, Feb. 20, 2016.

2016. Refereed book mss, *Whole-Earth Ethics for Holy Ground*, Sacramental Creation, for Lexington Books

2016. Refereed mss., "Knowledge, Imagination, and Stories in the Aesthetic Experience of Forests," for *Estetika: The Central European Journal of Aesthetics*

2016. "Ralph Waldo Emerson," Rolston article in Joy A. Palmer Cooper and David E. Cooper, eds., *Key Thinkers on the Environment*, London, Routledge, 2018. Revised edition of Joy A. Palmer, ed., *Fifty Key Thinkers on the Environment*, Routledge, 2001. Pages 93-100.

2016. Correspondence with Masoud Mosafari (Iran and sometime U.S. and Canada) on "Let Nature Be Your Guide," wanted co-publication, eventually failed.

2016. "An Interview with Professor Holmes Rolston," by Jie Shu, Wuhan, China, during the conference, Environmental Aesthetics and Beautiful China, May 20-23, 2015. See under 2015. I edited it for Gao Shan.

2016. Review refusal, Mathew Foster, book mss. *The Human Relationship to Nature: the Limit of Reason, the Basis of Value, and the Crisis of Environmental Ethics*, sought by Lexington Books.

2016. "Endangered Species and Biodiversity," in *Encyclopedia of the Anthropocene*, Elsevier Publishing, DellaSala, Dominick A. and Michael I. Goldstein, eds., (Waltham, MA: Elsevier, 2018), vol. 4, pages 199-203. Online at: <https://hdl.handle.net/10217/185442>

2016. Refereed for *Environmental Ethics*, Tina Tin (France), "From Anthropocene to the Abiotic: Environmental Ethics and Values in the Antarctic Wilderness." Eventually published in *Environmental Ethics* 39, Spring 2017, pp. 57-74.

2016. Rolston article for Bernard Rollin Festschrift, "Animal Welfare and Environmental Ethics," prepared for a Festschrift undertaken by Richard Kitchener. But the Festschrift failed because Kitchener could not get enough contributors for papers. My text is in my digital files for 2016, under Rollin Festschrift.

2016. Rolston review of book mss. by John Haught: *The Cosmic Story: A Look Inside*, for Yale University Press. Published by Yale, 2017.

2016. Kenneth Shockley, "What we Need to Flourish: Rethinking External Goods and the Ecological Systems that Provide Them," inauguration lecture for the Holmes Rolston Endowed Chair in Environmental Ethics, October 14, 2016, Eddy Building, CSU. His PowerPoint printout is here. Streaming media online at: <http://hdl.handle.net/10217/178139>

2016. "Is Environmental Ethics Wicked?" Rolston paper prepared for publication and eventually failed. Tried Journal of Agricultural and Environmental Ethics (JAGE) for a special issue for which they were calling for papers, and was refused. Tried for a conference that was forthcoming at CSU and failed.

2016. "The Earth Charter Facing the Anthropocene Epoch," prepared and little came of it for several years. Editors complained their papers were very slow coming in. Eventually published in Peter D. Burdon, Klaus Bosselmann and Kirsten Engel, eds., *The Crisis in Global Ethics and the Future of Global Governance: Fulfilling the Promise of the Earth Charter*, Cheltenham UK: Edward Elgar. 2019. Pages 72-91.

2016. Banff and Icefields Parkway. June 24 - July 1, 2016. Flew to Calgary. Bussed to Banff. Upscale Fairmont Hotel. Templeton Foundation Annual Meeting. Bussed to Lake Louise. Banff National Park has 44 wildlife crossing structures, overpasses and underpasses. Parks Canada has become a world leader in highway wildlife mitigations. Using auto cameras, over 200,000 animal crossings have been recorded here. Canoe on Lake Louise.

Drive on Icefields Parkway. Reached Saskatchewan River Crossing, "Crossroads," 4 bighorn rams crossing on the bridge over the highway. Reached Athabasca Glacier and Columbia Icefields up top. Hotel room with a spectacular view of the Athabasca Glacier in the distance, maybe three quarters of a mile off. Columbia Icefield has been there since before *Homo sapiens* appeared on the Earth. (238,000 to 126,000 BC). There have been several advances and retreats. The icefield is atop a triple Continental Divide: Arctic Ocean, Pacific Ocean, Atlantic Ocean. Drove north to Jasper. Great stretches of driving on the edges of braided glacial flats, filled with rock flour. Visited Athabasca Falls. Spectacular. Reached Jasper. Drove up the Maligne Lake road. Bears with cubs. Bighorn sheep with lambs. Drive back to Calgary. Very hard rain and hail. Flew home.

The detail of this trip is online: Rolston Trail Log - 2016
<http://hdl.handle.net/10217/181779>

2017

2017. "Environmental Ethics and Environmental Anthropology." Rolston article in Helen Kopnina and Elle Quimet, eds., *Routledge Handbook of Environmental Anthropology*. Routledge. Papers and research notes. includes notes on Makah Indian tribe and whaling. Printed text online at: <http://hdl.handle.net/10217/178141>.

2017. "The Anthropocene! Beyond the Natural?" presentation at Oregon State University, March 16, 2017, at a book launch for Stephen M. Gardiner and Allen Thompson, eds., *The Oxford Handbook of Environmental Ethics* (New York: Oxford University Press, 2017). mp4 file. Rolston was one of four contributors to the handbook who made short presentations at this event, followed by a panel discussion. Only the Rolston presentation is here, 31 minutes. The print version of this presentation is the article in *The Oxford Handbook of Environmental Ethics*, pp. 62-73, online at: <http://hdl.handle.net/10217/178714>. We are now entering the Anthropocene Epoch – so runs a recent enthusiastic claim. Humans can and ought go beyond the natural and powerfully engineer a better planet, managing for climate change, building new ecosystems for a more prosperous future. Perhaps the Anthropocene is inevitable. But: Rejoice? Accommodate? Accept it, alas? Perhaps the wiser, more ethical course is not so much "beyond" as "keeping the natural in "symbiosis" with humans. Enter the Semi-Anthropocene! Basically Natural! Carefully!

2017. "Is There an Ecological Ethic?" in Donald Scherer and Thomas W. Attig, eds., *Ethics and the Environment* (Englewood Cliffs, NJ: Prentice Hall, 1983). Reprinted in Klaus Bosselmann and Prue Taylor, eds., *Ecological Approaches to Environmental Law* (in series *The International Library of Comparative Law*) (Cheltenham, UK: Edward Elgar Publishing, 2017), pages 165-181. First published in *Ethics: An International Journal of Social and Political Philosophy* 85(1975):93-109.

2017. "Wonderland Earth in the Anthropocene Epoch," in *Climate Change Ethics and the Non-Human World*, Brian G. Henning and Zack Walsh, eds. Milton Park, Abingdon, UK and New York: Routledge, 2020. Pages 196-210. Prepared in 2017 but not published until 2020. See also there.

2018

2018. "Endangered Species and Biodiversity, in Dominick A. DellaSala and Michael I. Goldstein, eds., *Encyclopedia of the Anthropocene* (Waltham, MA: Elsevier, 2018), vol. 4, pages 199-203. Online at: <https://hdl.handle.net/10217/185442>.

2018. *Gentle Mission - Integrated Ecology, Faith and Living*, Presbyterian Church of Taiwan celebrating the 20th anniversary of the Environmental Sunday. 2018.

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Contains two articles:

Article 1: Yiren Lin, Dean of Taipei Medical School, College of Medical Humanities, "Looking for home – Rolston's Ecology and Philosophy, pp. 88-94.

Article 2: Tzu-mei Chen, TESA, Taiwan Ecological Stewardship Association, General Secretary, "From 'dismissed country preacher' to 'the father of environmental ethics'", pp. 101-108. Online at: <https://hdl.handle.net/10217/187175>

2018. "Holmes Rolston, III." Featured in Joy A. Palmer Cooper and David E. Cooper, eds., *Key Thinkers on the Environment* (London, Routledge, 2018), pages 291-297. Biographical and interpretive article by Jack Weir. Earlier version: Joy A. Palmer, David E. Cooper, and Peter Blaze Corcoran, eds., *Fifty Key Thinkers on the Environment* (London: Routledge, 2001), pages 260-268. The 2018 text is online at: <http://hdl.handle.net/10217/37719>.

2018. Chen Wangheng, *Beautiful China and Environmental Aesthetics*, 2018. ISBN : 978-7-112-21825-7 Beijing: China Building Industry Press. Contains Holmes Rolston III, "Environmental Aesthetics in China: East-West Dialogue," in Chinese, pages 173-183, followed by English text. Translated by Qi Jun. Originally a lecture presented in Wuhan, China, at the Environmental Aesthetics and Beautiful China International Conference, May 20-23, 2015. Online at: <https://hdl.handle.net/10217/192316>.

2018. "Redeeming a Cruciform Nature," in *Zygon: Journal of Religion and Science* 53(2018):739-751 Contains Rolston, In a series of articles evaluating the work of Christopher Southgate, University of Exeter, UK. Online at <https://hdl.handle.net/10217/196986>

2019

2019. "Leading and Misleading Metaphors: From Organism to Anthropocene," pages 103-116 in Kenneth Worthy, Elizabeth Allison, and Whitney A. Bauman, eds. *After the Death of Nature: Carolyn Merchant and the Future of Human-Nature Relations*. New York and London: Routledge, 2019. Online at: <https://hdl.handle.net/10217/192937>

2019. Rolston Review of Christopher J. Preston, *The Synthetic Age: Outdesigning Evolution, Resurrecting Species, and Reengineering our World* (Cambridge: The MIT Press, 2018. xx, 224 pages). In *Environmental Ethics* 40(2018):189-191. Preston has a new worldview, convinced "that humans have utterly transformed the earth" and have a "startling synthetic future." But he should have been more forceful about Anthropocene abuses of power. Further, his discussion of the value of wildness is relegated to a brief, puzzling postscript. Online at: <https://hdl.handle.net/10217/194365>

2019. Holmes Rolston III, *Science and Religion: An Introduction for Youth* (Nashville, TN: Elm Hill Books, an imprint of Thomas Nelson, a division of HarperCollins Christian Publishing). ISBN 978-1-595559937 paperback; ISBN 978-1-595559968 hardbound; ISBN 978-1-595559951 e-book. Youth, grades 9-12, can and ought to understand that science and religion are compatible, when appropriately understood.

2019. Rolston, "Lame Science? Blind Religion?" *Zygon: Journal of Religion and Science* 54(2019):351-353. Commentary on Lisa Sideris, *Consecrating Science*. Science is lame in supplying a commanding world view, but science introduces us to nature as a wonderland at levels great and small, to which religion is otherwise blind.

2019. "Foreword: Weaving What Together?" in James S. Mastaler, *Woven Together: Faith and Justice for the Earth and the Poor* (Eugene, Oregon: Cascade Books, 2019; an imprint of Wipf and Stock), pp. ix-xii. <https://hdl.handle.net/10217/194872>

2020

2020. "Wonderland Earth in the Anthropocene Epoch," in *Climate Change Ethics and the Non-Human World*, Brian G. Henning and Zack Walsh, eds. Milton Park, Abingdon, UK and New York: Routledge, 2020. Pages 196-210.

2020. Ecological Citizen ! ?" in *Ecological Citizen*, vol. 3, no. 2, pages 121-123. An ecological citizen is a citizen who is also ecological. But can you be a citizen of an ecology? Online at: <https://hdl.handle.net/10217/203549>

2020. Is God Responsible for Evil? Episode 1402. Aired 2020. Filmed variously. Robert Kuhn *Closer to Truth* Program. How on earth could God be reconciled with massive, monstrous evil? If God is all-powerful and all-knowing, and if God is the

creator, wouldn't God be responsible for evil? Re-visiting the issue, featuring interviews with five academics, including Holmes Rolston. Online at: <https://hdl.handle.net/10217/211042>

2020. If God Exists, Why Natural Evil? Holmes Rolston interviewed by Robert Kuhn on *Closer to Truth*. Filmed at Helsingor, Denmark, 2011. Aired 2020. 6 mins, 28 secs. If God exists, why is there so much suffering in the natural world? Because creativity is impossible without challenge that includes forms of suffering. The struggle for adapted fit is struggling through to something higher. The creation is cruciform in that it necessarily requires life and death struggle. Light shines in the darkness and the darkness does not overcome it. The way of nature is the way of the cross. Online at: <https://hdl.handle.net/10217/211041>