

Conference Program
AGU Hydrology Days 2002
 April 1 - 4, 2002
 Colorado State University

AGU Hydrology Days 2002 Program at a Glance				
	<u>April 1</u>	<u>April 2</u>	<u>April 3</u>	<u>April 4</u>
8-10 AM	<u>River Hydraulics I</u>	<u>Droughts</u>	<u>Geomorphology - Network Dynamics</u>	<u>Water Quality - Urban Drainage</u>
	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10-12 AM	<u>River Hydraulics II</u>	<u>Environmental Hydrology & Hydraulics</u>	<u>Hydro-climate Weather</u>	<u>Hydrogeology</u>
	Lunch Break	<u>Luncheon</u> Panel Discussion on Consortium of Universities for the Advancement of Hydrologic Science	<u>Luncheon</u> Presentation of Hydrology Days Award to Professor Ignacio Rodriguez-Iturbe	End of Conference
2-4 PM	<u>Applied Hydro-ecology</u>	<u>Soil Moisture Dynamics - Flow in Porous Media I</u>	<u>Session in Honor of Professor Ignacio Rodriguez-Iturbe - I</u>	
	Coffee Break	Coffee Break	Coffee Break	
4-6 PM	<u>Stream flow & Floods</u>	<u>Soil Moisture Dynamics - Flow in Porous Media II</u>	<u>Session in Honor of Professor Ignacio Rodriguez-Iturbe - II</u>	

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Monday, April 4, 2002

Date	Time	Session Title
April 1	8:00	RIVER HYDRAULICS I Cherokee Park Room
	8:00	Reinforcement Value of Vegetation In Articulated Concrete Block Systems Chad Lipscomb, Hydraulics Program, Civil Engineering Department, Colorado State University, Fort Collins, CO 80526 (abstract)
	8:20	Reese Creek Flume Calibration Study Brian A. Smith, Christopher I. Thornton and Michael D. Robeson, Civil Engineering Department, Engineering Research Center, Colorado State University (abstract)
	8:40	Effect of Sampler Dimension and Sampling Time On Measured Bedload Transport Rates and Particle Sizes In Gravel-Bed Streams Kristin Bunte and Steven R. Abt, Engineering Research Center, Colorado State University, Fort Collins, CO (abstract)
	9:00	Computational Methods For Determining Effective Discharge In The Yazoo River Basin, Mississippi C. L. Holmquist-Johnson, Civil Engineering Department, Colorado State University, Fort Collins, CO (abstract)
	9:20	Historical Analysis and Sediment Budget Development For The North Fork of The Gunnison River, Colorado Chris Jaquette, Watershed Science Department, Colorado State University, Fort Collins; and Ellen Wohl, Earth Resources Department, Colorado State University, Fort Collins; and David Cooper, Earth Resources Department, Colorado State University, Fort Collins (abstract)
April 1	9:40	Mid-morning Break
April 1	10:00	RIVER HYDRAULICS II Cherokee Park Room
	10:00	Energy-Based Indicators of Network Structure and Channel Stability: Status and Prospect Brian Bledsoe, Department of Civil Engineering, Colorado State University, Fort Collins, CO (abstract)

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April 1	10:00	RIVER HYDRAULICS II Cherokee Park Room (continued)
	10:20	Predicted and Measured Flow Patterns In Channels Using CFD and Flume Data Dan Gessler, Mussetter Engineering, Inc. Fort Collins, CO (abstract)
	10:40	Historical and present day sediment loads in the Middle Rio Grande, New Mexico R.A Mussetter, M.D. Harvey and S.C. Trabant, Mussetter Engineering, Inc. (abstract)
	11:00	Modeling Sediment Transport With Casc2d-Sed Rosalía Rojas, Civil Engineering Dept., Colorado State University, Fort Collins; and Pierre Julien, Professor of Civil Engineering, Engineering Research Center, Colorado State University, Fort Collins (abstract)
	11:20	A Flume Study of Hydraulic Resistance In Step-Pool Channels Andrew Wilcox, Ellen Wohl, Julie Kray, and Karla Schmidt, Dept. of Earth Resources, Colorado State University, Fort Collins, CO 80523 (abstract)
	11:40	Upper Missouri River Geomorphological Assessment Related To Bank Stabilization Rebecca S. Soileau and David S. Biedenharn, USACE-ERDC, Colorado State University, Engineering Research Center, Fort Collins, CO (abstract)
	Poster	Optimization Modeling and Downstream Hydraulic Geometry In Hydroclimatically Extreme Environments Susan Howe, Department of Earth Resources, Colorado State University, Fort Collins, CO; and Ellen Wohl, Department of Earth Resources, Colorado State University, Fort Collins, CO (abstract)
	Poster	Universal Multiannual Water Discharge Rating Curve For Stable Gauge Stations In A River Basin George Gergov and Tzviatka Karagjozova, National Institut of Meteorology and Hydrology, Sofia, Bulgaria (abstract)
	Poster	Fall Velocity of Cluster of Spherical Particles In Quiescent Fluids Ashok Kumar, Department of Civil Engineering, Institute of Technology, B.H.U., Varanasi-221005, India.; and Binod Kumar, Former Graduate Student, Department of Civil Engineering, Institute of Technology, B.H.U., Varanasi-221005, India. (abstract)

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April 1	12:00	Lunch Break
April 1	2:00	APPLIED HYDRO-ECOLOGY Cherokee Park Room
	2:00	Modeling Vegetation Cover In Drylands: Linking Ecological Continuum Theory and Spatial Hydrology Craig N. Goodwin, Watershed Science Unit & Department of Rangeland Resources, Utah State University, Logan; and David G. Tarboton, Department of Civil and Environmental Engineering & Utah Water Research Laboratory, Logan (abstract)
	2:20	Hydrologic Analysis For River Ecosystem Management Sharon G. Campbell, Aquatic Ecologist, USGS, Mid-continent Ecological Science Center; and Marshall Flug, Research Hydrologist, USGS MESC, Ft. Collins, Co; and R. Blair Hanna, Research Associate, Johnson Control World Services, Inc., Ft. Collins, CO (abstract)
	2:40	The Control of Infiltration As A Mechanism For The Self-Regulation of Prairie Ecosystems: Preliminary Studies At Rolling Thunder Prairie State Preserve, Warren County, Iowa Steven H. Emerman and Jeffrey R. Parmelee, Department of Biology and Environmental Science, Simpson College, Indianola, Iowa (abstract)
	3:00	The Agonizing SAN FRANCISCO BAY ECOSYSTEM Rozengurt, M. A., Ph.D., P.H., Coastal Consulting, Huntington Beach, CA 92646 (abstract)
April 1	3:20	Mid-afternoon Break
April 1	3:40	STREAMFLOW, FLOODS ESTIMATION, FORECASTING, AND RISK ASSESSMENT Cherokee Park Room
	3:40	Flood Vulnerability and Loss Estimation Neil S. Grigg, Department of Civil Engineering, Colorado State University, Fort Collins, CO (abstract)

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	4:00	<p>The Population Index Flood Method For Regional Frequency Analysis</p> <p>Oli G. B. Sveinsson and Jose D. Salas, Department of Civil Engineering, Colorado State University, Fort Collins; Duane C. Boes, Department of Statistics, Colorado State University, Fort Collins (abstract)</p>
	4:20	<p>GIS Based Distributed Modeling For Flood Estimation</p> <p>Seifu Gebremeskel, Yong Bo Liu, Florimond De Smedt, Department of Hydrology and Hydraulic Engineering, Free University Brussels, Belgium; and Laurent Pfister, Centre De Recherche Public - Gabriel Lippmann, Grand-Duchy of Luxembourg. (abstract)</p>
	4:40	<p>Linkages Between Mid-Latitude Pacific Ocean/Atmosphere Climatic Conditions and Seasonal/Annual Northern California Streamflow</p> <p>Levi Brekke, Environmental Engineering Program, Dept. of Civil & Environmental Engineering, University of California Berkeley, John A. Dracup, Environmental Engineering Program, Dept. of Civil & Environmental Engineering, University of California Berkeley (abstract)</p>
	Poster	<p>Flood and Risk Assessment In Part of Yewa Basin: A GIS Approach</p> <p>Olusegun Adeaga, Department of Geography, University of Lagos, Akoka-Yaba, Lagos State (abstract)</p>
	Poster	<p>Storm Flood Forecasting On Drini and Mati Rivers Basins of Albania</p> <p>Bardhyl Avdyli, Albanian Academy of Sciences, Hydrometeorological Institute, Tirana, Albania; and Koço Gjoka, Albanian Academy of Sciences, Institute of Informatics and Applied Mathematics, Tirana, Albania; and Marenglen Bukli, Albanian Academy of Sciences, Institute of Informatics and Applied Mathematics, Tirana, Albania (abstract)</p>

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Tuesday, April 2, 2002

Date	Time	Title
April 2	8:00	DROUGHTS: CHARACTERIZATION AND MANAGEMENT Cherokee Park Room Session Chair: Professor Robert Ward, Director, Colorado Water Resources Research Institute
	8:00	Drought Analysis and Properties by Stochastic Methods Jose D. Salas, Department of Civil Engineering, CSU; Roger A. Pielke, Sr. Department of Atmospheric Science, CSU (abstract)
	8:20	How Severe a Drought Should Colorado Residents Expect to Experience in their Lifetimes? Nolan Doesken, Assistant State Climatologist, Department of Atmospheric Science, CSU
	8:40	Drought Planning by the City of Fort Collins Donnie Dustin, Water Resources Division, City of Fort Collins
	9:00	Drought Planning by the Northern Colorado Water Conservancy District Andy Pineda, Senior Water Resources Engineer, Northern Colorado Water Conservancy District, Loveland, Colorado
	9:20	Mid-morning Break
April 2	9:40	ENVIRONMENTAL HYDROLOGY AND HYDRAULICS Cherokee Park Room
	9:40	Application of Hack's Law To Predict In Channel Features of Ecological Interest With Coarse Scale Watershed Variables Alejandro N. Flores, Graduate Research Assistant, Civil Engineering Department, Colorado State University; and Brian P. Bledsoe, Assistant Professor, Civil Engineering Department, Colorado State University (abstract)

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April 2	9:40	ENVIRONMENTAL HYDROLOGY AND HYDRAULICS Cherokee Park Room (continued)
	10:00	On Trout Winter Habitat In The Animas Basin Robert T. Milhous, Mid-continent Ecological Science Center. U.S. Geological Survey. Fort Collins, Colorado. (abstract)
	10:20	Modeling of Potential Dam Removal Impacts To Habitat, Flooding and Channel Stability On The Carmel River, California R.A. Mussetter, D. Gessler, C.G. Wolff, Mussetter Engineering, Inc., Fort Collins CO (abstract)
	10:40	A field study of the effect of carbon dioxide on chemical weathering rates, Sierra Nevada, CA Alexis Navarre, Department of Geology and Geological Engineering, Colorado School of Mines, Golden, CO; Geoff Thyne; Department of Geology and Geological Engineering, Colorado School of Mines, Golden, CO (abstract)
	11:00	Estimates of Hyporheic Flow Effects On River Water Quality Alexander "Sam" Fernald, Watershed Management Assistant Professor, New Mexico State University, Las Cruces, NM; Dixon H. Lander, Aquatic Ecology Senior Research Scientist, U.S. EPA KHEERL, Corvallis, OR; and P. Jim Wigington, Jr., Hydrology Senior Research Scientist, U.S. EPA KHEERL, Corvallis, OR (abstract)
	11:20	Long-Term Effect of Waste Deposition On Surface Water and Low Cost Method of Remediation By Defined Converting of The Material Peter Spillmann and Timo Doerrie, Institute of Landscape Construction and Waste Management, University of Rostock, Germany (abstract)
	11:40	Dry-Spell Analysis For Studying The Sustainability of Rain-Fed Agriculture: Applied To The Arbaminch Area In Ethiopia Abebe Belachew Belete, Lecturer, Arbaminch Water Technology Institute, Ethiopia; Prof. Dr.-Ing. Habil. H.-B. Horlacher Institute For Hydraulic Engineering, Faculty of Civil Engineering, Dresden University of Technology, Dresden, Germany (abstract)
	Poster	Daily Chloride Contamination of Lake Ontario By Etobicoke Cr. Dr. Rimma Vedom, Hydrology and Environment, Mississauga On L5a 3p8, Phone: 416 592 3991, Fax: 416 592 7518, Rimma.Vedom@Opg.Com (abstract)

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	Poster	<p>Competing Water Needs: Modeling Klamath River Drought Allocations</p> <p>Marshall Flug, Research Hydrologist, USGS, Mid-continent Ecological Science Center, Fort Collins, CO; Sharon G. Campbell, Aquatic Ecologist, USGS, MESC, Ft. Collins, CO; and R. Blair Hanna, Research Associate, Johnson Control World Services, Inc., Ft. Collins, CO (abstract)</p>
April 2	12:00	<p>Luncheon - Longs Peak Room</p> <p>Panel Discussion on CUAHSI - Consortium of Universities for the Advancement of Hydrologic Science, Inc.</p>
Date	Time	Title
April 2	2:00	<p>SOIL MOISTURE DYNAMICS - FLOW IN POROUS MEDIA I Cherokee Park Room</p>
	2:00	<p>Simple Soil Water Hysteresis Prediction Model Based On Theory and Geometric Scaling</p> <p>Randel Haverkamp, Laboratoire D'etude Du Transferts En Hydrologie Et Environnement, Grenoble, France; Peter J. Ross, CSIRO Land and Water, Indooroopilly, Australia; and J.-Yves Parlange, Department of Biological and Environmental Engineering, Cornell University, Ithaca, NY 14853 (abstract)</p>
	2:20	<p>Real-Time Measurement of Water Profiles In A Sand Using Neutron Radiography</p> <p>Mark Deinert, Nuclear Science and Engineering, Cornell University, Ithaca, NY, J.-Yves Parlange, Tammo S. Steenhuis, Department of Biological and Environmental Engineering, Cornell University, Ithaca, NY, Kenan Ünli, Ward Center For Nuclear Sciences, Cornell University, Ithaca, NY, John Selker, Department of Bioresource Engineering, Oregon State University, Corvallis, OR, K. Bingham Cady, Department of Theoretical and Applied Mechanics, Cornell University, Ithaca, NY (abstract)</p>
	2:40	<p>Scale Effects In The Dependence of Water Balance Fluxes Partitioning On Soil Moisture</p> <p>Vania Toninelli, Department of Hydraulic, Environmental and Surveying Engineering, Politecnico Di Milano, Milano, Italy; and Guido Daniel Salvucci, Associate Professor At The Departments of Earth Sciences and Geography, Boston University, Boston, Massachusetts (abstract)</p>

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April 2	2:00	SOIL MOISTURE DYNAMICS - FLOW IN POROUS MEDIA I Cherokee Park Room (continued)
	3:00	Performance of Green-Ampt Model In Estimating Flow Through The Vadose Zone Abu Noman Md. Ahsanuzzaman, University of Oklahoma; and Randall Kolar Associate Professor, University of Oklahoma. (abstract)
	Poster	TDR Soil Moisture Data Measured In Different Soils Marilena Menziani, Sergio Pugnaghi, Renato Santangelo, Università Di Modena E Reggio Emilia, Dipartimento Di Ingegneria Dei Materiali E Dell'ambiente, Modena, Italy; and Sergio Vincenzi, Istituto Per Lo Studio Della Dinamica Delle Grandi Masse (Isdgm) CNR, Venezia, Italy (abstract)
April 2	3:20	Mid-afternoon Break
April 2	3:40	SOIL MOISTURE DYNAMICS - FLOW IN POROUS MEDIA II Cherokee Park Room
	3:40	Network Allometry and Ecosystem Structure Andrea Rinaldo, Dipartimento Image and International Centre For Hydrology "Dino, Tonini", Università Di Padova, Via Loredan 20, I-35151, Padova, Italy (abstract)
	4:00	Effect of Aquifer Parameter Uncertainty On Analytical Estimates of Streambed Conductance Using STRMAQ Garey Fox, Water Resources, Hydrologic, and Environmental Sciences Division, Department of Civil Engineering, Colorado State University; and Deanna Durnford, Professor, Water Resources, Hydrologic, and Environmental Sciences Division, Department of Civil Engineering, Colorado State University (abstract)
	4:20	Comparative Analysis of Approximate Solutions To The Boussinesq Equation Aleksey S. Telyakovskiy, Mathematics Department, University of Wyoming, Laramie; Myron B. Allen, Mathematics Department, University of Wyoming, Laramie, 82071, Gastao A. Braga, Departamento De Matemática-Ufmg, Caixa Postal 702, Belo Horizonte, Mg, Brazil, Fred Furtado, Mathematics Department, University of Wyoming, Laramie, 82071 (abstract)

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	4:40	<p>A Large-Scale Hydrogeological Database and Groundwater Model For Flanders: A Tool For Integrated Groundwater Management</p> <p>J. Cools Y. Meyus, O. Batelaan and F. De Smedt, Department of Hydrology and Hydraulic Engineering, Vrije Universiteit Brussel, Belgium. (abstract)</p>
	Poster	<p>A Comparison Between Water Years 2000 and 2001 For Groundwater In Bulgaria</p> <p>Tatiana Orehova, National Institute of Meteorology and Hydrology, Department of Hydrology, Sofia, Bulgaria (abstract)</p>
	Poster	<p>Optimum Utilization of Groundwater Resources In A Heavily Exploited Aquifer (of Tehran)</p> <p>A.Salavitabar, Mahab Ghodss. Consulting Eng. Tehran. Iran; and J. Najihammodi, Pwit, Ministry of Energy, Tehran, Iran. (abstract)</p>
	Poster	<p>Interpreting Pumping Tests For A Basalt-Interbed Hydrostratigraphic Unit</p> <p>Craig E. Divine, ARCADIS, Highlands Ranch, Colorado; and Brian Rask, John C. Halepaska & Associates, Inc. Littleton, Colorado (abstract)</p>

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Wednesday, April 3, 2002

Date	Time	Title
April 3	8:00	WATERSHED MORPHOLOGY AND RIVER NETWORKS DYNAMICS Cherokee Park Room
	8:00	On Rivers and Randomness Peter Molnar and Jorge A. Ramirez, Civil Engineering Department, CSU, Fort Collins, Colorado (abstract).
	8:20	Digital Elevation Models and Hydrology David G Tarboton, Utah Water Research Laboratory, Civil and Environmental Engineering Department, Utah State University, Logan (abstract)
	8:40	Advances In Integrating Spatially Variable Rainfall and Self-Similar River Networks Seth Veitzer, Ph. D., NRC/USGS, CIRES/CCCC, University of Colorado, Boulder, Boulder, CO (abstract)
	9:00	Upscaling of Drainage Networks Sunderrajan Krishnan, Dept. of Geological and Environmental Sciences, Stanford University, CA (abstract)
	9:20	Automated Extraction of Drainage Structure and Watershed Parameters From Digital Elevation Models: The Hare Watershed Experience In Ethiopia Abebe Belachew Belete, Lecturer, Arbaminch Water Technology Institute, Ethiopia; Prof. Dr.-Ing. Habil. H.-B. Horlacher Institute For Hydraulic Engineering, Faculty of Civil Engineering, Dresden University of Technology, Dresden, Germany (abstract)
	9:40	Measuring and Relating Selected Variables In DLA Simulated Watershed Networks Craig Perciante, Northern Illinois University, Aurora, IL (abstract)
April 3	10:00	Mid-morning Break

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April 3	10:20	HYDRO-CLIMATE AND HYDRO-WEATHER Cherokee Park Room
	10:20	Stochastic Space-Time Inversion Schemes For NEXRAD Precipitation Boosik Kang and Jorge A. Ramírez, Civil Engineering Department, Colorado State University, Fort Collins, Colorado 80523 (abstract)
	10:40	A Review of the 2001 Water Year in Colorado Nolan J. Doesken, Colorado Climate Center, Atmospheric Science Department, Colorado State University, Fort Collins; and Michael Gillespie, Snow Survey Division, Natural Resources Conservation Service, U.S. Department of Agriculture, Lakewood; (abstract)
	11:00	A Land Surface Scheme For Analysis of Carbon Dioxide Fluxes In Pasoh Forest, Malaysia Saovaluk Sima-Aree, Civil Engineering Department, Colorado State University, Jorge A. Ramírez, Civil Engineering Department, Colorado State University (abstract)
	11:20	Chaotic Analysis and Aggregation of Hydrologic Series H. S. Kim, Dept. of Civil Engineering, Sun Moon Univ., Asan, Chungnam, Korea; and J.D. Salas, Dept. of Civil Engineering, Colorado State Univ., Ft. Collins, Colorado, USA (abstract)
	11:40	Modeling Framework For Long-Term Salinity With Uncertainty In The Colorado RIVER James Prairie and Balaji Rajagopalan, Architectural, and Environmental Engineering Department, University of Colorado, Boulder, Terry Fulp, U.S. Bureau of Reclamation, University of Colorado, Boulder; and Edith Zagona, Center For Advanced Decision Support For Water and Environmental Systems (CADSWES), University of Colorado, Boulder (abstract)
	Poster	Comparison of The Hurst Exponents of Historical and GCM Rainfall Time Series Nick Van De Giesen, Center For Development Research, Bonn University, Germany; and Luis J. Mata, Center For Development Research, Bonn University, Germany (abstract)

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April 3	12:00	Luncheon - Longs Peak Room Presentation of Hydrology Days Award to Professor Ignacio Rodriguez Iturbe
Date	Time	Title
April 3	2:00	ECO-HYDROLOGY SESSION IN HONOR OF IGNACIO RODRIGUEZ-ITURBE Cherokee Park Room
	2:00	Hydrologic Dynamics and Ecosystem Structure Ignacio Rodriguez-Iturbe, Theodora Shelton Pitney Professor of Environmental Studies, and Professor of Civil and Environmental Engineering, Civil and Environmental Engineering Department, Princeton University (abstract)
	2:20	Multi-Scale Spatial Variability Of Water And Energy Balance Equations: A Foundation For Developing Eco-Hydrologic And Hydro-Ecologic Theories Vijay K. Gupta and German Poveda; University of Colorado, Boulder, CO and Bruce Milne University of New Mexico, Albuquerque, NM (abstract)
	2:40	Persistence Of Annual Streamflows Induced By Basin Storage And Weather Jose D. Salas and Oli G.B. Sveinsson, Department of Civil Engineering, Colorado State University; Fort Collins, CO and Roger Pielke Sr. Department of Atmospheric Sciences, Colorado State University Fort Collins, CO (abstract)
	3:00	Issues In Drought Characterization and Forecasting Juan B. Valdés, Tae-Woong Kim, Dept. of Civil Engineering and Eng. Mechanics, and Sahra (Center For Sustainability of Semi-Arid Hydrology and Riparian Areas), The University of Arizona, Tucson AZ. Javier González-Perez, Dept. of Civil Engineering and Eng. Mechanics, The University of Arizona, Tucson AA (abstract)
	3:20	Hydrologic Processes As Distributions Carlos E. Puente, Department of Land, Air and Water Resources, University of California, Davis (abstract)
	3:40	Mid-afternoon Break

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April 3	4:00	RAINFALL-RUNOFF RELATIONSHIPS, WATERSHED MODELING, GIUH, HILLSLOPE HYDROLOGY SESSION IN HONOR OF IGNACIO RODRIGUEZ-ITURBE Cherokee Park Room
	4:00	Upscaling and Hysteresis In Models of Soil Moisture, Evaporation, and Transpiration Michael A. Celia, Environmental Engineering and Water Resources Program, Princeton University, Andrew J. Guswa, Picker Engineering Program, Smith College (abstract)
	4:20	Space-Time Measurement of Soil Water and Simulation of Coupled Overland/Subsurface Flow In Undulating Terrain Timothy R. Green, USDA – Agricultural Research Service, Fort Collins, CO, Jose D. Salas and Huanxiang Ruan, Colorado State University, Department of Civil Engineering, Fort Collins, CO (abstract)
	4:40	Physical, Mechanistic Hillslope Hydrology Model: Development and Applications David A. Raff, Civil Engineering Department, Colorado State University, Jorge A. Ramírez, Civil Engineering Department, Colorado State University (abstract)
	5:00	Saturation Excess Runoff From Variable Source Areas Tatiana Hernandez, Water Resources Engineer, URS Corporation, Tampa, and Mahmood Nachabe, Department of Civil and Environmental Engineering, University of South Florida, Tampa. (abstract)
	5:20	Geomorphologic Instantaneous Unit Hydrograph Stream Flow Simulation For The Yalobusha River Basin, Ms David M. Mooney, Department of Civil Engineering, Colorado State University (abstract)
	Poster	The GIUH: A Personal View Riccardo Rigon, Dipartimento Di Ingegneria Civile ed Ambientale e Cudam, Università Di Trento, I - 38050 Mesiano Di Povo, Trento (Italy) (abstract)
	Poster	Rainfall and Runoff Dynamics In The Goodwin Creek Watershed Jeremy J. Franz and Jorge A. Ramírez, Water Resources, Hydrologic and Environmental Sciences Division, Civil Engineering Department, Colorado State University, Fort Collins, CO (abstract)

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Thursday, April 4, 2002

Date	Time	Title
April 4	8:00	WATER QUALITY - URBAN DRAINAGE Cherokee Park Room
	8:20	DNAPL Zone Characterization and Treatment: State of The Practice Frank J. Johns, II, PE, Craig E. Divine, and Scott Andrews, PE, ARCADIS, Highlands Ranch, Colorado (abstract)
	8:40	Simulation of Septic System Pollutants In Summit County, Colorado, Using Two Watershed Water-Quality Models Paula Jo Lemonds, John E. McCray, Department of Geology and Geological Engineering, Colorado School of Mines, Golden, CO; Jennifer L. Guelfo, Division of Environmental Science and Engineering, Colorado School of Mines, Golden, CO; Laura H.Z. Weintraub, Systech Engineering, Inc., San Ramon, CA; Kathryn S. Lowe, Robert L. Siegrist, Division of Environmental Science and Engineering, Colorado School of Mines, Golden, CO (abstract)
	9:00	Why Do We Call Urban Runoff "Drainage" Larry A. Roesner, Civil Engineering Department, Colorado State University, Fort Collins (abstract)
	9:20	Effect of Drainage Controls and BMPs On The Flow Frequency Curve of Urban Runoff Seth Nerke, Civil Engineering Department, Colorado State University (abstract)
	9:40	Preliminary Hydrogeologic Investigation Into The Effects of Managed Recharge On Water Quality, Lower South Platte River, Co Jamey T. Watt, Department of Earth Resources, Colorado State University, Fort Collins, Dr. William E. Sanford, Assistant Professor, Department of Earth Resources, Colorado State University, Fort Collins (abstract)
	10:00	Design of A Water Quality Information System Within The Framework of A Collaborative Watershed Organization. Case Study: Big Thompson Watershed Forum. Juliane B. Brown, Department of Earth Resources, College of Natural Resources, Colorado State University, Fort Collins (abstract)

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April 4	10:20	Mid-morning Break
April 4	10:40	HYDROGEOLOGY AND GW CONTAMINATION AND MANAGEMENT Cherokee Park Room
	10:40	<p>Design Criteria For Successful Biodegradation of Hydrocarbon Contamination In Soils and Groundwater</p> <p>Sameh Afifi, Assistant Professor, Civil Engineering Department, Colorado State University and James Warner Professor, Civil Engineering Department, Colorado State University (abstract)</p>
	11:00	<p>Sequential Electrolytic Degradation of Energetic Compounds In Groundwater</p> <p>David Gilbert and Tom Sale, Research Associates, Porous Media Laboratory, Department of Civil Engineering, Colorado State University, Fort Collins, CO (abstract)</p>
	11:20	<p>Field Demonstration of An E-Barrier At Canadian Forces Base, Borden, Ontario</p> <p>Tom Sale and Dave Gilbert, Colorado State University, Department of Civil Engineering, Fort Collins, Colorado, USA; and Cory Repta, University of Waterloo, Department of Earth Resources, Waterloo, Ontario, Canada (abstract)</p>
	11:40	<p>Evaluation of Radiogenic Helium-4 In The Fruitland Formation, and Implications For Regional Hydrogeology, San Juan Basin, Colorado</p> <p>Paul D. Sorek, Department of Earth Resources, Colorado State University, Fort Collins, Dr. William E. Sanford, Assistant Professor, Department of Earth Resources, Colorado State University, Fort Collins (abstract)</p>
	12:00	<p>Using ISO14001 Gaps Analyses To Improve Sustainability Of Water Programs And Projects</p> <p>Larry Quinn, P.E., Civil Engineering Department, Colorado State University, Fort Collins, CO 80523 (abstract)</p>
	Poster	<p>Recording The Actual Ground Water Contamination Through Profile Measurement and Stratified Sampling In Small Wells With Through-Flow</p> <p>Kurth Lhotzky, Lhotzky Und Partner Ingenieurgesellschaft Mbh, 38104 Braunschweig, Germany; and Peter Spillmann, Institute of Waste Management and Landscape Construction, University of Rostock, 18059 Rostock, Germany (abstract)</p>

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	Poster (withdrawn)	Water Residence Times and Nutrient Losses Across An Urbanizing Gradient (Croton Reservoir Watershed, NY) Jonathan M. Duncan, Dr. Tomas Vitvar, Dr. Myron Mitchell, Dr. James Hassett, State University of New York College of Environmental Science and Forestry, Syracuse (abstract)
	Poster	The Non-returnable Consumption of Water In Irrigation Agriculture Nadezhda Shumova, Water Problems Institute of The Russian Academy of Sciences, Moscow, Russia (abstract)