



# JOINT FEDERAL INTERAGENCY CONFERENCE (8thFISC & 3rdFIHMC)

#### FORWARD

The Federal Interagency Sedimentation Conferences (FISC) began in 1947, and the Federal Interagency Hydrologic Modeling Conferences (FIHMC) began in 1998. These highly successful conferences, which together have produced over 1800 papers, are held jointly in 2006. The Joint Conference provides Federal and non-Federal scientists and managers from various disciplines the opportunity to discuss recent accomplishments and progress in research and on technical developments in the physical, chemical, and biological aspects of sedimentation and the development and use of models addressing surface water quality and quantity issues. The Joint Conference follows a mixed set of formats, including formal presentations, poster sessions, mini-workshops, and model demonstrations.

The Subcommittee on Hydrology (SOH) held the Federal Interagency Workshop on Hydrologic Modeling Demands for the 90's in Fort Collins, Colorado in 1993. That highly successful workshop was limited to Federal participants. Subsequent to that Workshop, the SOH decided to hold a broader series of conferences and to open it to all interested parties. The First and Second Federal Interagency Hydrologic Modeling Conferences were held in 1998 and 2002 in Las Vegas, Nevada, and covered models addressing surface water quality and quantity issues.

Federal Interagency Sedimentation Conferences (FISC) were held in 1947, 1963, 1976, 1986, 1991, 1996, and 2001. As a continuation of these highly successful conferences, the 8thFISC again provides an interdisciplinary mix of scientists and managers from government agencies. academia, and the business community to make professional presentations on recent accomplishments and progress in research and on technical developments related to sedimentation processes and the impact of sediment on the environment.

#### **CONFERENCE SITE**

The Conference is held at the Silver Legacy Hotel and Casino in Reno, Nevada. Reno averages over 300 days of sunshine per year and features family recreation possibilities such as Lake Tahoe and the High Sierra mountains.

#### **SPONSORS**

The Federal Interagency Subcommittees on Hydrology (SOH) and Sedimentation (SOS).

SUBCOMITTEE ORGANIZATIONS	
Association of State Floodplain Managers	
Agricultural Research Service	ARS
American Forests	
American Society of Civil Engineers	ASCE
Defenders of Property Rights	
Bureau of Land Management	BLM
Bureau of Reclamation	BOR
Colorado Water Resources Research Institute	CWRRI
Electric Power Research Institute	EPRI
Federal Emergency Management Agency	FEMA

TEXTURAL ANALYSIS OF MARINE SEDIMENTS AT Poppe, L.J., Williams, S.J., THE USGS WOODS HOLE SCIENCE CENTER: METHODOLOGY AND DATA ON DVD

IDENTIFICATION OF SEDIMENT SOURCES IN A SEMIARID WATERSHED USING MULTIPLE DIAGNOSTIC PROPERTIES

INFLUENCES OF OFF-HIGHWAY VEHICLES ON FLUVIAL SEDIMENT REGIMES

USDA-NRCS STREAM RESTORATION DESIGN HANDBOOK

DESIGNING LOG EROSION BARRIERS FOR MAXIMUM EFFECTIVENESS: THE CONTOUR-LOG-BASIN APPROACH

USE OF WET SIEVING TO IMPROVE THE ACCURACY OF SEDIMENT AND SEDIMENT-ASSOCIATED CONSTITUENT CONCENTRATIONS IN WHOLE-WATER SAMPLES

A MODEL OF STREAMBANK STABILITY INCORPORATING HYDRAULIC EROSION AND THE EFFECTS OF RIPARIAN VEGETATION

USE OF DIMENSIONLESS RATIOS IN STREAM RESTORATION PLANNING

RESULTS OF A TWO-DIMENSIONAL HYDRODYNAMIC AND SEDIMENT-TRANSPORT MODEL OF THE CONSTRUCTION AND OPERATION OF THE OLMSTED LOCKS AND DAM, OHIO RIVER

DETERMINING RELATIVE CONTRIBUTIONS OF ERODED LANDSCAPE SEDIMENT AND BANK SEDIMENT TO THE SUSPENDED LOAD OF GOODWIN CREEK USING RADIONUCLIDES

MEASUREMENTS OF VELOCITY PROFILES AND SUSPENDED- SEDIMENT CONCENTRATIONS IN A COLORADO RIVER EDDY DURING HIGH FLOW LAGARITHMIC MATCHING AND ITS APPLICATION

IN DATA ANALYSIS SELF-SIMILARITY OF OPEN-CHANNEL

TURBULENCE

SEDIMENT ANALYSIS OF A GRADUAL DAM REMOVAL ON BREWSTER CREEK, ST. CHARLES, Paskevich, V.F

Fred Rhoton, William Emmerich, Mark Nearing, Jerry Ritchie, Christopher Wilson David DiCarlo Mark S. Riedel

Kerry M. Robinson, Jon Fripp, and Jerry Bernard Larry J. Schmidt

Bill Selbig, Roger Bannerman, George Bowman

Andrew Simon and Natasha Pollen

W. Barry Southerland

Chad R. Wagner

Christopher Wilson and Roger Kuhnle

Scott A. Wright & Jeffrey W. Gartner

Junke Guo

Junke Guo

Timothy D. Straub



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#### POSTERS

TITLE PRIMARY FACTORS AFFECTING WATER CLARITY AT SHALLOW WATER SITES THROUGHOUT THE	AUTHOR(S) Julie M. Baldizar and Nancy B. Publicki
CHESAPEAKE AND MARYLAND COASTAL BAYS	Rybicki
EQUATIONS FOR ESTIMATING BANKFULL- CHANNEL GEOMETRY AND DISCHARGE FOR STREAMS IN THE NORTHEASTERN UNITED STATES	Gardner C. Bent
MULTI-DISCIPLINED APPROACH ON THE UPPER QUINAULT RIVER GEOMORPHIC STUDY, 18 KM REACH UPSTREAM OF LAKE QUINAULT	Jennifer Bountry, Lucy Piety, Ed Lyon, Tim Randle, Tim Abbe, Galen Ward, Kevin Fetherston, Bill Armstrong, Larry Gilbertson, Chase Barton
EAST CHICAGO SEDIMENT REMEDIATION DEMONSTRATION PROJECT	David F. Bucaro & Kirsten Buczak
COMPARISON BETWEEN CONCEPTUAL PHYSICAL MODEL OF RESERVOIR SEDIMENTATION AND A 3D NUMERICAL MODEL	Omid Reza Safiyary and Amin Chegenizadeh
EFFECTS OF THE 1997 FLOOD ON THE KLAMATH NATIONAL FOREST, NORTHERN CALIFORNIA: LESSONS LEARNED & IMPLICATIONS TO FUTURE FOREST MANAGEMENT	Juan de la Fuente, Don Elder, Alisha Miller
TURBIDITY THRESHOLD SAMPLING: INSTRUMENTATION AND METHODS	Rand Eads and Jack Lewis
THE CHALLENGES OF SAMPLING SUSPENDED SEDIMENT IN A MOBILE CHANNEL WITH HIGHLY DYNAMIC TRANSPORT	Rand Eads
PRELIMINARY SEDIMENT BUDGETS FOR FOUR WATERSHEDS AT KINGS RIVER EXPERIMENTAL WATERSHED IN SOUTHERN SIERRA NEVADA	Sean Eagan, Carolyn Hunaker, Abbey Korte, Sarah Martin, and Lee McDonald
RECONNAISSANCE TECHNIQUE FOR RESERVOIR SURVEYS	Ron Ferrari and Kent Collins
ALLUVIAL FAN EROSION AND SEDIMENT INVESTIGATIONS USING THE HYDRAULIC MODELING TOOL FLO-2D	Joe Gasperi and John McClung
INTEGRATED RIVER MORPHOLOGY AND VEGETATION MODELING OF THE SACRAMENTO RIVER	Blair Greimann, Jennifer Bountry, Yong Lai, David Mooney, and Timothy Randle
<i>SOIL EROSION ON CROPLAND IN THE UNITED</i> <i>STATES: STATUS AND TRENDS FOR 1982-2003</i>	Carla A. Kertis, Thomas A. livari
U.S.GEOLOGICAL SURVEY PILOT STUDY RESULTS FOR PARTICLE SIZE DISTRIBUTION ANALYSES OF QUALITY ASSURANCE SAMPLES	Natalie Latysh
A FIVE-YEAR RECORD OF SEDIMENTATION IN THE LOS ALAMOS RESERVOIR, NEW MEXICO, FOLLOWING THE CERRO GRANDE FIRE	Alexis Lavine, Gregory A. Kuyumjian, Steven L. Reneau, Danny Katzman and Daniel V. Malmon
EVALUATION OF TECHNIQUES TO ESTIMATE SUSPENDED-SEDIMENT CONCENTRATIONS IN THE KANSAS RIVER	Casey J. Lee, Patrick P. Rasmussen and Andrew C. Ziegler
CHANNEL WIDTHS CHANGES ALONG THE MIDDLE RIO GRANDE, NM	Paula Makar, Tamara Massong, Travis Bauer
LANDSLIDE SEDIMENT PRODUCTION RATES IN THE MIDDLE FORK AND UPPER EEL RIVER BASINS, NORTHERN CALIFORNIA	Juan de la Fuenta, Alisha Miller, Don Elder, Robert Faust, William Snavely
SPATIAL PATTERNS OF SOIL EROSION AND DEPOSITION IN TWO SMALL, SEMI-ARID WATERSHEDS	M.A.Nearing, Akitsu Kimotol,Mary H. Nichols, Jerry C. Ritchie
GEOMORPHIC CHANGE AND CONTROLLING VARIABLES IN AN EPHEMERAL ALLUVIAL CHANNEL	M.H. Nichols, M. Nearing and B. Yuill
MONITORING COARSE SEDIMENT PARTICLE DISPLACEMENT USING A RADIO FREQUENCY IDENTIFICATION SYSTEM	Mary Nichols
MONITORING AGGRADATIONAL AND DEGRADATIONAL TRENDS OF THE MIDDLE RIO GRANDE, NM	Robert Padilla and Christi Young
NUMERICAL STUDY OF THE RESPONSE OF A RESERVOIR DEPOSIT TO SUDDEN DAM REMOVAL	Allesandro Cantelli, Miguel Wong, Gary Parker
THE USDA'S CONSERVATION EFFECTS ASSESSMENT PROJECT (CEAP)	Roberta Parry
LOWER CLEAR CREEK FLOODPLAIN REHABILITIATION PROJECT: GEOMORPHIC MONITORING OF PHASE 3A	Smokey Pittman, Graham Matthews

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Federal Highway Administration Federal Energy Regulatory Commission International Boundary and Water Commission National Hydrologic Warning Council	FHwA FERC IBWC
National Park Service	NPS
National Science Foundation	NSF
National Weather Service	NWS
Natural Resources Conservation Service	NRCS
Office of Surface Mining Reclamation & Enforcement Universities Council on Water Research	OSMRE
US Army Corps of Engineers	USACE
US Environmental Protection Agency	USEPA
US Forest Service	USFS
US Geological Survey	USGS

ORGANIZING COMMITTEE for the				
Joint Federal Interagency Conference				
Joint Conference Chair- G. Douglas Glysson, USGS				
Operations Chair– Paula Makar, BOR				
Proceedings Coordinator– Francisco Simoes, USGS				
Poster/Demo Coordinator- Tom Donaldson, NWS				
Logistics– Larry Schmidt, USFS (ret.)				
Registration– Jeff Rieker, BOR				
Exhibits– Joe Treadway, USGS				
Short Course Coordinator– Jayantha Obeysekera, S. FL Water				
Mgt. District				
Field Trip Coordinator– Gary Barbato, NWS				
Publicity Coordinator– Christi Young, BOR				

#### 3rdFIHMC

8thFISC

Chairs– Don Frevert, BOR Jerry M. Bernard, NRCS Tech. Prog. Chairs– George Leavesley, USGS Jerry W. Webb, USACE Co-chairs– Steve Markstrom, USGS Dina McComas, USACE A/V Coordinators– Roland Viger, USGS Marie M. Garsjo, NRCS

#### **EXHIBITS**

Exhibits will be held in the Exhibit Hall as follows:

EXHIBIT HALL		Opens	Closes
Sunday (Grand Opening)	April 2	5:30pm	7:30pm
Monday	April 3	8:30am	6:45pm
Exhibitors' Reception		5:15pm	6:45pm
Tuesday	April 4	10:00am	3:30pm

A Grand Opening of the Exhibit Hall is planned for Sunday and will include a two-hour get acquainted reception in the Exhibit Hall from 5:30 pm to 7:30 pm. All Monday and Tuesday coffee breaks, poster sessions, and receptions will also be held in the Exhibit Hall to insure that participants have ample time to visit all the exhibits. A special Exhibitor's Reception is planned for Monday

**INFORMATION/MESSAGE CENTER.** Messages for participants at the Conference will be posted on the message board in the registration area. Messages may be directed to the Silver Legacy Hotel operator at 775-329-4777.

**TRANSPORTATION.** Transportation to the Silver Legacy Hotel may be obtained by commercial shuttle or taxicab. Complimentary airport limousine service is available from the airport to the hotel at approximately 30-minute intervals. One-way taxicab fare is about \$20. SPOUSAL PROGRAMS. Directions and information on local attractions will be available at the registration area. Spouse registration is \$40 and includes all refreshment breaks, receptions, and Wednesday dinner.

#### REGISTRATION

\$ \$

	<b>Conference Registration:</b>
390 450	by March 1, 2006 after March 1 and onsite

**Registration Includes:** 

Conference Proceedings (8thFISC & 3rdFIHMC) on CD-ROM Joint Conference Abstracts (printed)

Opening Reception: Sunday, Exhibit Hall, Grande Expo B Exhibitors' Reception, Posters-I: Mon., Exhibit Hall, Grande Expo B Model Demos, Posters- I I, Dinner: Wed., Grande Expo Hall All refreshment breaks

Registration Desk Hours PLATINUM Room				
Sunday	April 2	7:00 am	to	6:00 pm
Monday	April 3	7:30 am	to	5:30 pm
Tuesday	April 4	8:00 am	to	5:00 pm
Wednesday	April 5	8:00 am	to	5:00 pm
Thursday	April 6	8:00 am	to	1:00 pm

#### SPEAKERS' BREAKFASTS

A working breakfast will be served Monday through Thursday for each day's speakers:

Speakers' Breakfasts					
Monday	April 3	8:00 am	to	9:00 am	Silver Baron A
Tuesday	April 4	7:15 am	to	8:15 am	Grande Expo C
Wednesday	April 5	7:15 am	to	8:15 am	Grande Expo C
Thursday	April 6	7:15 am	to	8:15 am	Gold/Silver

This will be a full breakfast and all speakers, presenters of posters/models, session chairpersons, and audio/visual (A/V) assistants are requested to attend on the morning of the day of their presentation(s). They will be briefed on the day's activities. Speakers will coordinate their computer files with the A/V assistants before and during this breakfast meeting. Speakers are requested to attend this breakfast the day of their talks and to verify their arrangements with the session chairs and the A/V coordinator.

#### SPEAKERS' VIEWING ROOM:

**Boardroom** The Boardroom is set up for speakers to view their presentation files and for session chairpersons and A/V assistants to meet with speakers.

#### PROCEEDINGS

The proceedings for this Joint Conference will be published on a single CD and will be provided upon registration at the conference. Each full registrant will receive one CD. Additional CDs are available for \$25 each at the conference. A printed copy of the conference Abstracts will also be provided upon registration. Additional copies of Abstracts can be purchased for \$20 each at the conference.

#### **EXHIBITORS' RECEPTION** & POSTERS-I

Grande Expo B

Monday, April 3, 5:15pm to 6:45pm. A reception will be held in the Grande Exposition Hall after the close of Technical Sessions. Posters will be available for viewing, and authors will be available for discussion at that time

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10:30	)am	3rdFIH	MC THURSDAY	4/06/06	
11	D	MODE FLOR	ELING SOUTH IDA-II	SILVER BARON D	
( Co-	Chair: Chair	Kenneth Alonso G	Tarboton riborio		
10:3	0am	INTEGRA REGION	ATION OF CONTROL F AL SIMULATION MOD	PROCESSORS IN THE EL(RSM) : Jayantha Obeyseker	a,
10:5	0am	Joseph Par CHALLE OF A RE BASED V MANAGE	rk, and Kandy Vanzee NGES AND APPROAC GIONAL-SCALE, FIRS WATERSHED MODEL EMENT AND ECOSYST	CHES IN THE DEVELOPMEN T-PRINCIPLE, AND PHYSIC FOR SOUTH FLORIDA WAT TEM RESTORATION: HP. B. Chang, D. C. MAYAR, C. H. T.	T S- ER
11:1	0am	E. V. Edris	A Hansen, C. A. Tabor, J. , HC. Lin, M. A. Granat, an ATED HYDROLOGICAL	nd D. R. Richards	ur
11:3	0am	HYDROL MARSHA Alonso G. ( Arceneaux	DYNAMIC AND WATER ALL LOXAHATCHEE N. Griborio, Ehab A. Meselhe, , Emad H. Habib, and Mich	R CUALITY MODEL ARTHUR R CUALITY MIDDLIFE REFUG ATIONAL WILDLIFE REFUG Shankar Gautam, Jeanne C. Iaael G. Waldon	R. E:
10:30	)am	3rdFlH	IMC THURSDAY	4/06/06	
11	Ε	MODE	EL USE IN SION MAKING-:	SILVER II BARON 1-3	3
( Co-	Chair: Chair	Edie Zago Don Frev	ona ert		
10:3	0am	MANAGI	NG TVA'S HYDROPOV	WER SYSTEM USING	
10:5	0am	RIVERWA MEETINO STAKEH RIVERWA DESEDV	G THE NEEDS OF COL OLDERS: A NEW POL ARE & AN ANALYSIS	and rimothy M. Magee .ORADO RIVER ICY EVALUATION TOOL IN OF COORDINATED MORE LOW DESEDVOID	
11:1	0am	CONDITI STAKEH MODELII Roark Apr	INS: Carly Jerla, Terry Fu IOLDER PARTICIPATIC NG ON THE MIDDLE R Il Sanders, and Edie Zagor	ulp, and Edie Zagona DN IN TARGET FLOW IO GRANDE: Marc Sidlow, Miku a	е
11:3	0am	INNOVA LOWER Vickers, Kr	<i>TIONS IN WATER SUP</i> <i>COLORADO RIVER AL</i> is Martinez, Nadira Kabir, F	PLY MODELING FOR THE JTHORITY IN TEXAS: Brad Richard E. Brown, and Ron Anders	son
10:30	)am	3rdFIH	IMC THURSDAY	4/06/06	
11	F	FLOO	DS-II	SILVER BARON 4-0	5
( Co-	Chair: Chair	Baxter Vie Cameron	eux Ackerman		
10:3	0am	REGION FOR SPC OREGON Weber	AL FLOOD FREQUENC ORADIC THUNDERSTO V: Henry Hu, Todd Bennet	CY ANALYSIS ACCOUNTING ORMS IN NORTH CENTRAL t, Wilbert Thomas, Jr., and Joseph	ີ <i>ງ</i> າ
10:5	0am	PALEOF ARKANS	LOODS AND FLOOD F SAS RIVER BASIN NEA L Ir. Jeanne F. Klawon Tr	FREQUENCY IN THE AR PUEBLO, COLORADO: Jo avis R. Bauer, and Ralph F. Klinov	ohn er
11:1 11:3	0am 0am	DAM FAI GEORAS DEVELO CONTRO John Daylo	ILURE ANALYSIS USIN Cameron T. Ackerman a PMENT AND USE OF U DL HYDROPOWER ALC r, Jerry Cotter, Edie Zagon	VIG HEC-RAS AND HEC- nd Gary W. Brunner USACE-SWD FLOOD GORITHMS IN RIVERWARE: Ia, and Nancy Hall	
	5	:00pm	All Short	Courses end	
	5	:00pm	All Joint Confer	ence activities end	

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10:30am	8thFISC THURSDAY 4/06/06
11A	SEDIMENT YIELD &SILVERTRANSPORT-VIBARON C
Chair: Co-Chair	John Bartholic Marty Teal
10:30am	ESTIMATING SEDIMENT YIELD IN THE SOUTHERN APPALACHIANS USING WCS-SED: Paul Bolstad, Andrew Jenks,
10:50am	Mark Riedel, and James M. Vose RECONSTRUCTING RESERVOIR STRATIGRAPHY FROM HYDROLOGIC HISTORY AND SIMPLE TRANSPORT CALCULATIONS: ENGLEBRIGHT LAKE, YUBA RIVER,
11:10am	NORTHERN CALIFORNIA: Scott A. Wright and Noah P. Snyder CHESTER MORSE LAKE OUTLET CHANNEL ALTERNATIVES EVALUATION: Hans Hadley. Thomas R. Grindeland, and Dalong
11:30am	"Daniel" Huang SEDIMENT TRANSPORT RESEARCH IN SHALLOW OVERLAND FLOW: M.J.M. Romkens, S.N. Prasad, S. Madhusudana Rao
10:30am	8thFISC THURSDAY 4/06/06
11B	SEDIMENT & WILDLIFESILVERHABITAT-IIBARON E
Chair: Co-Chair	Bill Carey Larry Schmidt
10:30am	USE OF AERIAL THERMOGRAPHY TO MAP EMERGENT RIVERINE SANDBARS: Ashley K. Heckman, Paul J. Kinzel, and
10:50am	Jonathan M. Nelson MODELING OF SPECIAL HIGH-FLOW RELEASE ALONG PLATTE RIVER IN CENTRAL NEBRASKA: Mohammed A. Samad
11:10am	and Timothy J. Randle THE IMPLICATIONS OF RECENT FLOODPLAIN EVOLUTION ON WILDLIFE HABITAT WITHIN THE MIDDLE RIO GRANDE, MV: Paul Tashiian (EWS-Albuguergue, NM), Tamara Massong
11:30am	(Reclamation -Albuquerque, NM) <b>SAFETY AND FISH PASSAGE FOR LOW-HEAD DAMS:</b> Aaron W. Buesing
10:30am	8thFISC THURSDAY 4/06/06
11C	INSTRUMENTATION SILVER MONITORING BARON A
Chair: Co-Chair	Thad Pratt Peter Brooks
10:30am	MONITORING THE EFFECTS OF SEDIMENTATION FROM MOUNT ST. HELENS: Patrick S. Obrien. Alan D. Donner, and David S.
10:50am	Biedenharn MODELING SEDIMENT TRANSPORT DURING OVERBANK FLOW IN THE RIO PUERCO, NEW MEXICO: Eleanor Griffin, J.
11:10am	Dungan Smith, Jason Kean, Kirk Vincent THE EFFECTS OF ENSO PHASE ON THE OCCURRENCE OF COARSE PARTICLE MOTION IN CALIFORNIA COASTAL
11.00	SIREAMS: E.D.Andrews and Ronald C. Antweiler

11:30am THE VALUE OF CONTINUOUS TURBIDITY MONITORING IN TMDL PROGRAMS: Teresa J. Rasmussen, Andrew C. Ziegler, Patrick P. Rasmussen, and Thomas C. Stiles

# MODEL DEMONSTRATIONS POSTERS, AND DINNER

Grande Expo Hall

Model demos and Posters-II, Wednesday, April 5, 4:30pm– 9:00pm. A 4½ hour session for computer models and technical posters is offered. A light dinner by stations will be served between 6:00pm and 7:30pm, during the demonstrations. See list of Poster Papers in the technical section of this program. Additional dinner tickets may be purchased for \$25 each.

# FIELD TRIPS

Note: field trips are subject to cancellation and refund in case of poor weather conditions or insufficient number of participants. A \$25 fee will be charged if you cancel out of a field trip after March 15, 2006. *NOTE: Field trips convene at Pre-Function Salon 15 minutes prior to departure.* 

# Sunday, April 2, 2006

"Lower Truckee River Operations for Restoration: Reno to Pyramid Lake": 9am-4 pm \$40 including lunch. Registration by March 15 required for lunch. Presented by U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, Nevada Department of Environmental Protection, Washoe County Department of Water Resources, The Nature Conservancy, and Chad Gourley, Geomorphologist. This tour will concentrate on the physical changes made to the lower Truckee River during the last century, along with resulting erosion, flooding, and water quality/quantity impacts. Some of the methods which have been and will be put into place to mitigate these impacts will be covered. Truckee River operations for water supply, flood control, restoration of cottonwoods and the threatened Lahontan Cutthroat Trout and rare/endangered Cui-Ui in Pyramid Lake will be discussed. Planned stops include: 1) Truckee River at Vista, where the history of the Vista Reefs impacts and subsequent removal will be explained. 2) McCarran Ranch, where the river restoration project carried out by The Nature Conservancy will be covered. 3) Derby Dam, which has a major impact on Truckee River flows and the resulting health of both the river and of Pyramid Lake below this U.S. Fish and Wildlife Service will discuss the Variable Instream Flow Strategy to manage flows for fish migration, cottonwood recruitment and water quality/quantity impacts. 5) Marble Bluff Dam and Fish Passage Facility, where the Bureau of Reclamation will discuss how the dam has stopped the Truckee's headcutting upstream, and the Fish and Wildlife Service will describe the fish passage facility. While en route, key facilities, structures, and diversions along the way will be pointed out and their role in river operations explained.

"Lake Tahoe and Upper Truckee River Region: River and Reservoir Operations, Tahoe City to Reno": 9am-4 pm \$40 including lunch. Registration by March 15 required for lunch. Presented by U.S. Geological Survey, U.S. District Court Water Master's Office, Truckee Meadows Water Authority, and the U.S. Bureau of Reclamation This tour will concentrate on the history of Lake Tahoe, the Truckee River and their complex operation for water supply, flood control, recreation, power generation, environmental concerns and the restoration of two endangered species of fish in Pyramid Lake. At Meeks Bay, glaciation which occurred in the Tahoe Region will be discussed. Stops will include Lake Tahoe Dam, the Truckee River gage below Lake Tahoe Dam, Meeks Bay, Donner Lake, Boca Dam, Stampede Dam, Gray Creek (viewpoint), and a tour of the Chalk Bluffs Water Treatment Plant in Reno. While en route, key facilities, structures, gages, and diversions along the way will be pointed out and their role in river operations explained.

"Restoring Ecological Integrity to the Carson River"; Carson River from Genoa to Dayton, NV Area: 10 am-4 pm. \$40 including lunch. Registration by March 15 required for lunch. Presented by Dayton Valley Conservation District, Carson Valley Conservation District, Western Nevada Conservation and Development Office, Carson Water Subconservancy District, and The Nature Conservancy: Mancaused changes to the Carson River watershed since the 1850s due to agriculture and mining have caused major degradation to the river channel and watershed. The degraded state of the river exacerbated the damage caused by the major January 1997 flood, and considerable erosion and damage to the banks and riparian areas again occurred. As a result, landowners sought erosion protection, habitat improvement and geomorphic restoration under various federal relief and state conservation programs. In addition, several Federal, State and local agencies formed a partnership to address erosion and sedimentation problems. This field trip will visit several sites on the Carson River from Genoa to Dayton, NV, where various restoration projects have been planned and implemented. The restoration projects, some ongoing since 1999, include geomorphic alterations to restore the function of the river and wetlands, as well as using combinations of vegetation and engineered structures and materials (bioengineering) to control erosion and sedimentation. These sites have served as classroom workshops and follow-up demonstration areas for various erosion control and habitat improvement treatments. Lake

Tahoe and Carson City Waterfall Burn Area: "Challenges of Limiting Sedimentation, Flooding and Debris Flows at Lake Tahoe and in the Carson City "Waterfall" Fire Burn Area Watershed" 10 am - 4 pm. \$40, including lunch. Registration by March 15 required for lunch. Presented by: U.S. Geological Survey, Natural Resources Conservation Service, U.S. Forest Service, Federal Highway Administration, Desert Research Institute and others. Loss of Lake Tahoe water clarity continues to be a national issue. This field trip will highlight sedimentation programs, as well as sedimentation control and monitoring networks in place at Lake Tahoe. Those participating will also visit the 2004 Carson City Waterfall Fire burn area, where means of monitoring flows and of limiting sedimentation, flooding and debris flows will be discussed.

#### SHORT COURSES

Note: Short courses are subject to cancellation and refund if the number of registrants are not sufficient to cover the class. Nonconference attendees can register but will have a lower priority than those who register for the full conference. A \$25 handling fee will be charged if a registration for a short course is cancelled after March 15, 2006.

#### Sunday, April 2, 2006

MIKE SHE/MIKE 11, Silver Baron 1-2, 9:00 am to 4:00 pm, \$175 Instructor: E. Zia Hosseinipour, Principal Water Resources Engineer, DHI, Inc. Complex riverrine and wetland flow systems and the interactions between surface water, ground water and evapotranspiration processes require an integrated mathematical hydrologic and hydrodynamic modeling approach. This course will (www.dhisoftware.com/mikeshe) developed by DHI. The software package comprising the hydrological model MIKE SHE and the river hydrodynamic model MIKE 11 enables a fully integrated, dynamic simulation of surface water and subsurface flow regimes. MIKE 11 includes a number of modules such as structure operations sediment transport, and water quality in association with DH's ECOLAB. The modeling system can be used to address a wide range of water management issues and, as a management tool, can be used to help in the restoration and preservation of wetlands and sensitive ecosystems. The modeling system is also frequently used to address and assess water demands and supply issues such as irrigation of agricultural crops and urban environments (lawns, golf courses, parks, etc. in water reuse to conserve freshwater sources for water supply). The modeling software is linked with GIS for database access, data management, postprocessing and assimilation of the model results. The use of GIS also allows for advanced flood mapping to study flood patterns, flood duration and possible crop damage. A CD of course materials will be provided for later use. A certificate of attendance will be issued to all attendees with an 8-hour PDH for registered professionals (PE, PG, PH) for their annual registration renewal requirements.

Hydrologic Modeling Using GIS and the Watershed Modeling System (WMS). Silver Baron 5-6, 9:00 am to 4:00 pm, \$125 Instructors: E. James Nelson, Professor, Brigham Young University; Colby Manwaring, Vice President, EMS-I Inc. The objective of this course is to present advanced tools for hydrologic model characterization and analysis. The course will cover the use of digital terrain data in watershed delineation and parameter extraction for hydrologic models. The creation and use of GIS data

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8:30am	3rdFIHMC T	HURSD	AY 4/06/0	6	
10D	MODELING FLORIDA-I	SOUTI	4	SILVI BARO	ER N D
Chair: Co-Chair	HP. Cheng Joseph Park				
8:30am	SOUTH FLORIDA IMPLEMENTATIO Kenneth C. Tarboton, Miessau, Ronald S. T Richard J. Sands	<b>REGIONAL</b> N: PROJEC Patricia E. F raver, Jorge I	L <i>SIMULATIC</i> CT MANAGE ulton, Lehar M. M. Rivera, Moh	DN MODEL (SI MENT ASPEC Brion, Richard R amed Z. Moustaf	F <b>RSM)</b> T <b>S:</b> R. Ta, and
8:50am	MANAGEMENT S HIERARCHICAL C REGIONAL SIMUL Obevsekera, and Rar	IMULATION CONTROL A LATION MC	N ENGINE: A ARCHITECTU DDEL(RSM): :	FLEXIBLE, JRE OF THE Joseph Park, Jay	yantha
9:10am	MSE NETWORK: FLOW NETWORK SIMULATION MO	AN INTEGH REPRESE DEL(RSM):	RATED DATA NTATION IN Michelle Irizar	BASE & STR THE REGION TY , Joseph Park	EAM IAL
9:30am	TRANSPARENT L REGIONAL SIMUL Park, and Jayantha (	n, and Randy DATA ACCE LATION MC Dbeysekera	SS AND FIL DEL(RSM):	TERING IN TH Randy VanZee,	<b>IE</b> Joseph
8:30am	3rdFIHMC TI	HURSDA	Y 4/06/0	6	
10E	MODEL USE DECISION N	E IN MAKING	i-I	SILVE BARON	R 1-3
Chair: Co-Chair	Edie Zagona Stuart Stein				
8:30am	CORPS WATER N SUPPORT MODE Thomas A Evans	IANAGEME LING AND I	NT SYSTEM NTEGRATIO	<b>I DECISION</b> W: William J. Ch	arley and
8:50am	A MODELING TOO OPERATIONS IN Martin Karsten Sedm	OL FOR EV THE MUSK	ALUATING F INGUM BASI	RESERVOIR IN: Stuart M. Ste	ein, Brett
9:10am	WATERSHED CO USING AGNPS: R	NSERVATI onald L. Bing	ON MANAGE ner and Fred TI	MENT PLAN	VING
9:30am	THREE-DIMENSIC FORDYCE DAM: S	JIVAL SEEF Samuel S. Lee	and Sorab Pa	nday	H
8:30am	3rdFIHMC TI	HURSDA	Y 4/06/0	6	
10F	FLOODS-I			SIL VE BARON	ER I 4-6
Chair: Co-Chair	John England Wilbert Thomas				
8:30am	ADVANCED HYDI AND LONG-TERM and lean F. Vieux	ROLOGIC F I CONTINU	PREDICTION OUS OPERA	FOR EVENT-I TION: Baxter E	BASED . Vieux
8:50am	HYDROLOGIC MC FLOOD INSURAN	DELING A	PPLICATION AM: Zhida So	<i>IS IN NATION</i> ng-James	4 <i>L</i>
9:10am	AN EVALUATION FREQUENCY EST	OF THE VA	ARIABILITY ( ENERATED I	OF FLOOD FROM A RAIN	FALL-
9:30am	REAL-TIME FLOC CAROLINA: Jerad	D. Bales and	TION MAPPI Chad Wagner	NG IN NORTH	I
	10:00am BR	EAK	Grande Ex	кро В	
	10:30am Sh	ort Cours	ses (see li	stings)	

## THURSDAY - MORNING

7:15am Speakers' Breakfast, *Gold/Silver* 

8:30am	8thFISC THURSDAY 4/0	6/06
10A	RESERVOIR SEDIMENTATION-II	SILVER BARON C
Chair: Co-Chair	Thomas Grindeland Doug Curtis	
8:30am	SEDIMENT CHEMISTRY IN THE CO	LORADO RIVER DELTA,
8:50am	EFFECTS OF NON-AGRICULTURA SEDIMENT QUALITY: A COMPARIS CONCENTRATIONS IN EIGHT SMA	L HUMAN ACTIVITY ON SON OF TRACE ELEMENT LL RESERVOIRS: Kyle
9:10am	SMALL ARTIFICIAL PONDS IN THE IMPACTS ON SEDIMENTATION AN Renwick, R.O.Sleezer, R.W.Buddemeier, S	<i>UNITED STATES:</i> <i>D CARBON BUDGET:</i> W.H. S.V.Smith
9:30am	MODELING SUSPENDED SEDIMEN TEMPERATURE IN DETROIT LAKE Stewart A. Rounds, Mark A. Uhrich, and Hi Survey, Oregon Water Science Center, 100 Portland, OR 97216	IT AND WATER , OREGON: Annett B. Sullivan, eather M. Bragg, U.S. Geological 615 S.E. Cherry Blossom Drive,
8:30am	8thFISC THURSDAY 4/0	6/06
10B	SEDIMENT & WILDLIFI HABITAT-I	E SILVER BARON E
Chair: Co-Chair	Jim Renthal Nicholas Pinter	
8:30am	ADAPTIVE MANAGEMENT CASE S ENGINEERING AND RESTORATIO MIDDLE RIO GRANDE, NEW MEXIC Engineer, Albuguergue, NM: Kristi-Irene Si	TUDIES FOR RIVER N PROJECTS ON THE CO: Mark S. Nemeth, Hydraulic mith. Hydraulic Engineer.
8:50am	Albuquerque, NM SPATIAL DISTRIBUTION OF IMPAC MOBILITY DUE TO FLOW REGULA USA: Michael Burke, Klaus Jorde, and R Ecohydraulics Research, University of Idah Research Geomorphologist, USDA Forest	CTS TO CHANNEL BED TION, KOOTENAI RIVER, ohan Benjankar, Center for Io, Boise, ID: John M. Buffington, Service, Rocky Mountain
9:10am	Research Station, Boise, ID: Jeffrey Braath of Natural Resources, University of Idaho, QUANTITATIVE LINKAGES BETWE STREAMBED FINE SEDIMENT, AN MACROINVERTEBRATES IN THE F NORTHERN CALIFORNIA: Matthew	I.e. Assistant Professor, College Moscow, ID; EEN SEDIMENT SUPPLY, D BENITHIC KLAMATH MOUNTAINS, R. Cover, Christine L. May,
9:30am	William E. Dietrich and Vincent H. Resh FLOW-SED / POWER-SED – PREDI SUSPENDED AND BEDLOAD TRAI	CTION MODELS FOR NSPORT: David L. Rosgen
8:30am	8thFISC THURSDAY 4/0	6/06
10C	FARM BILL / CONSERVATION	SILVER BARON A
Chair: Co-Chair	Jerry Bernard Daniel Meyer	
8:30am	ASSESSING EFFECTS OF CONSER WATERSHED SCALE: Tom Drewes, k	RVATION AT THE Kelsi Bracmort, and Jerry Bernard
8:50am	ASSESSING THE NATIONAL EFFE FOR THE FIRST TIME (CEAP): Robe Diane Eckles	CTS OF CONSERVATION- rt L. Kellogg, Charles Rewa, and
9:10am	EVALUATION OF THE IMPORTANC PROCESSES IN CEAP-WATERSHE	CE OF CHANNEL ED SUSPENDED SEDIMENT
9:30am	DETERMINATION OF SEDIMENT S BENCHMARK WATERSHEDS: Chris	OURCES ON THE CEAP topher Wilson and Roger Kuhnle

- 29 -

will also be presented as related to hydrologic modeling. The Watershed Modeling System (WMS) is a comprehensive hydrologic modeling software that will be used in the course to accomplish the objectives above. The software allows rapid and accurate analysis of digital terrain data, GIS data, and hydrologic modeling parameters. The software will be used to build hydrologic models for flow prediction, hydrograph prediction, and flood inundation mapping. Course materials will be provided on CD to each participant.

Introduction to Integrated Surface/Subsurface Modeling with MODHMS. Silver Baron C, 9:00 am to 4:00 pm, \$75 Instructor: Sorab Panday, Senior Director, Research & Development, HydroGeoLogic Inc. This course presents the theory and application of integrated surface and subsurface modeling using the MODHMS software. MODHMS is a physically based, spatially-distributed simulator for multi-scale applications of surface and subsurface flow and transport based on the popular MODFLOW framework. The hydrologic cycle is treated in a holistic approach with 3-D representation of the saturated / unsaturated subsurface system, 2-D vertically integrated representation of surface runoff, 1-D representation of rivers, streams, pipes, or other hydraulic features, and a node-link representation of small-scale features interacting with each other and with precipitation and evapotranspiration in a fully-coupled manner. The various physical and numerical aspects of MODHMS will be presented and its use with the ViewHMS preand post-processing system will be demonstrated. Application examples will be presented to demonstrate conceptualization and parameterization of integrated models and the various simplifications that may be made to reduce numerical burden.

Steam Restoration Design, Silver Baron A, 8:00 am to 5:00 pm, \$75 Instructors: Jerry Bernard, National Geologist, USDA-NRCS, Conservation Engineering Division; Jon Fripp, USDA-NRCS National Design Construction, and ; Kerry Robinson, USDA-NRCS East National Technology Support Center; and Dave Rosgen, WILDLAND HYDROLOGY The USDA Natural Resources Conservation Service (NRCS) is currently developing a stream design quide while be a comparison to the 1000 intersection design guide which will be a companion to the 1998 interagency document, "Stream Corridor Restoration: Principles, Processes, and Practices". This comprehensive draft design guide, currently titled USDA-NRCS Stream Restoration Design Handbook, presents engineering assessment and design tools that are applicable to any stream restoration work, whether it primarily follows a natural stream restoration or is strictly a structural project. The basis for this short course will be this USDA-NRCS Stream Restoration Design Handbook, which is scheduled for release near the time of this work shop. Excerpts from this manual, which is currently in draft form, will be provided to the students. Although the importance of proper planning for stream restoration work will be stressed, the focus of this workshop will be on selected design tools and procedures from the draft USDA-NRCS Stream Restoration Design Handbook. Specific design tools and short example problems will be provided. The course will focus on the basics of design techniques which have been compiled from over 120 contributing authors and practitioners. The course is therefore of benefit to those who are or will become engaged in designing stream restorations.

Hydraulic and Sediment Transport Modeling of Rivers and Watersheds with GSTAR. Silver Baron 3, 9:00 am to 4:00 pm, \$90 Instructors: Blair Greimann, Yong Lai, and David Mooney, U. S. Bureau of Reclamation The Bureau of Reclamation has developed several sediment transport tools for use in natural river systems. The course will give an introduction to three of these tools: SIAM, GSTAR-1D and GSTAR-W. SIAM (Sediment Impact Analysis Methods) is a reach-based geomorphic sediment budgeting tool to link sediment sources, sinks, and transport to channel adjustment and basin yield. SIAM computes sediment yields and locates areas of potential instability, identifies causes of geomorphic change distributed throughout a network, and tests potential solution strategies within watersheds of all sizes. GSTAR-1D (Generalized Sediment Transport for Alluvial Rivers - One Dimension) is a onedimensional hydraulic and sediment transport model for use in natural rivers and manmade canals. It is a mobile boundary model with the ability to simulate steady or unsteady flows, internal boundary conditions, looped river networks, cohesive and noncohesive sediment transport, and lateral inflows. GSTAR-W (Generalized Sediment Transport for Alluvial Rivers and Watersheds) is an unsteady two-dimensional hydraulic, erosion and sediment transport model for watersheds with 1D or 2D channel networks or for river systems with floodplains. The goal of this course will be to familiarize the student with each model so that they will be able to choose the correct model for their application and to understand each model's capabilities and limitations. Participants may want to bring their own notebook computers if they would like to have hands-on experience with the software during the short course.

## SHORT COURSES

#### Thursday, April 6, 2006

EXCEL-LENT. Silver. 10:30 am to 5:00 pm, \$150. Instructor: Darrell G. Fontane, Professor, Colorado State University The EXCEL spreadsheet software is one of the most used software packages in water resources organizations. Yet most engineers and scientists use only a fraction of the spreadsheet's capabilities. This workshop is designed to teach you how to employ some of the features particularly useful in engineering and water resources analysis. The workshop will cover customized graphs, including dynamic and animated graphs, recording macros, using message and input boxes, custom user forms, and writing your own customized Visual Basic for examples of engineering spreadsheets for future reference and a set of the EXCELLEnT notes. This workshop is designed for average and above spreadsheet users No previous programming experience with macros or Visual Basic for Applications is required. The workshop is hands-on, therefore participants must have their own notebook computer with EXCEL (version '97 or later) installed.

Arc Hydro - Hydrologic Modeling with GIS. Gold. 10:30 am to 5:00 pm, \$75, Instructor: Dean Djokic, Lead Developer, Arc Hydro, ESRI GIS as spatial data management and mapping technology provides strong foundation for support of hydrologic and hydraulic (H&H) analyses needed for floodplain mapping. This one-day workshop presents GIS technology and techniques that can be used for terrain analyses, hydrologic and hydraulic characteristics extraction, numerical model input and output, modeling process automation, and result mapping. HEC's GeoHMS and GeoRAS and USGS's StreamStats/NSS, each built upon foundation methodologies, data model, and toolset provided by Arc Hydro, form the modeling backbone for H&H analyses presented in this workshop. Besides GIS techniques, the workshop will present actual experiences in developing HMS, NSS, and RAS model inputs through use of GIS and in analyzing and mapping of model results. Utilization of GIS infrastructure for support of other H&H models will be discussed as well. Opportunities for GIS use in post-model analyses such as map production, flood damage estimation, and results dissemination will also be discussed.

HEC-HMS and HEC-GeoHMS. Silver Baron 5-6. 1:00 pm to 5:00 pm, \$50 Instructors: William A. Scharffenberg (HMS), Research Hydraulic Engineer, and James Doan (GeoHMS), U.S. Army Corps of Engineers Hydrologic Engineering Center, Davis The Corps of Engineers Hydrologic Engineering Center's HEC-HMS program and its GIS companion product HEC-GeoHMS are widely used within the engineering community. GeoHMS, an ArcView and ArcGIS extension, is used for preprocessing of an HMS dataset. It allows users to visualize spatial information, document watershed characteristics, perform spatial analysis, delineate basins and streams, and construct an HMS basin file. HMS simulates the precipitation-runoff processes of a dendritic watershed. It provides a wide variety of mathematical models for representing the mass and energy fluxes of the hydrologic cycle: precipitation, evapotranspiration, snowmelt, infiltration, surface runoff, baseflow, channel routing, reservoirs and diversions among others. These model choices include girded and area-averaged methods for event or continuous simulation. This short course will provide an overview and sample application of HMS and GeoHMS.

Accounting for Sediment Processes in Stream Analysis and Design. Silver Baron B. 10:30 am to 5:00 pm, \$50 Instructors: David S. Biedenharn and Charles D. Little, Engineering Research Development Center, U.S. Army Corps of Engineers, Stanford A.

1:30pm	3rdFIHM		ESDAY 4/0	5/06	
9D	PARAN CALIBI SENSI	METER ES RATION, A	STIMATION AND IALYSIS-11	N, SIL BAR	VER ON A
Chair: Co-Chair	John Englar Lainie Levic	nd :k			
1:30pm	AUTOMAT TOOL (AGI INPUT DAT Goodrich	ED GEOSPATI WA): UNCERT VA: L. Levick, D. I	AL WATERSHE AINTY ANALYS P. Guertin, D.J. Se	DASSESSME IS OF COMMO mmens, and D.C	ENT DN
1:50pm	CALCULAT USING ADI ESTIMATIC SENSITIVIT	TING MODFLO IFOR FOR EFF DN OF UNCER TIES FOR OPT	W ANALYTICAI ECTIVE AND EI TAINTIES AND IMAL OPERATI	L SENSITIVITI FFICIENT USE OF AQUI ON: Amir Gamli	ES FER el, and
2:10pm	IMPROVEN IN THE TAI SIMILARIT	MENTS TO INT MPA BAY, FLC Y AND CALIBR	EGRATED HYD DRIDA REGION: RATION METRIC	ROLOGICMOL HYDROLOGI CS: Jeffrey Geur	D <b>ELING</b> C ink, Ron
2:30pm	MODELING OUANTIFY Maged Husse	k Tara, ken Trout G UNCERTAIN ING THE ACCU ein	, Mark Ross TY AND CODE I URACY OF MOL	/ERIFICATION DELING CODE	l: ::S:
1:30pm	3rdFIHN	IC WEDNE	ESDAY 4/0	5/06	ſ
9F	WATE	R SUPPLY	' AND	SILVE	R
	AVAILA	ABILITY		BARO	NC
Chair: Co-Chair	Lauren Hay Mark Riede				
1:30pm	CLIMATE S IN WESTER	SIGNALS FOR RN U.S. REGIO	ENHANCED RU NS: Levi Brekke, .	<i>INOFF FOREC</i> Jon Medina, Dav	CASTING rid Raff,
1:50pm	and Shaleen . AN INTERA RISKS OF ( CALIFORN Chung, Levi E Miabaal Elay	Jain AGENCY WOR CLIMATE CHA IA'S WATER A Brekke, Michael A	PK TEAM'S PLA NGE ON MANA RESOURCES: Ja nderson, Dan East	N FOR ASSES GEMENT OF mie Anderson, F ion, Messele Eje	S <i>SING</i> Trancis ta,
2:10pm	NORTH AT VARIABILI Riedel	I, ROY PELEISON, A LANTIC OSCIL TY IN THE SOL	LATION INFLU	<b>ENCES ON C</b> A L <b>ACHIANS:</b> Ma	<b>LIMATE</b> ark S.
2:30pm	NATIONAL THE STRE	IMPLEMENTA AMSTATS WE	TION OF AND I B APPLICATION	ENHANCEME V: Kernell Ries	NTS TO
1:30pm	3rdFIHN	IC WEDNE	ESDAY 4/0	5/06	
9F	SURFA GROUN MODEL	CE WATE	ER / R	SILVE BARO	ER N E
Co-Chair	Aaron Byrd	Deysekera			
1:30pm	SPATIAL A FLUXES, L	ND TEMPORA EARY WEBER	L VARIABILITY DITCH, INDIAN	IN STREAME	BED aid, John
1:50pm	I. WIISON, AN ESTIMATIN SEDIMENT USING TEN MEASUREI	a Nancy I. Baker NG RATES OF . WATER INTER MPERATURE N MENT: Celia Zai	EXCHANGE AC RFACE IN THE I MODELING AND mora	ROSS THE MERCED RIVI DIRECT	ER, CA
2:10pm	MODELING DIMENSION	S STORM AND	TILE DRAINS II DGIC MODEL: A	V A MULTI- aron Byrd, Justir	ı
2:30pm	A REGION MODEL: Da	AL ANALYTIC ave Dahlstrom and	<i>ELEMENT GRO</i> d Vern Rash	DUNDWATER	FLOW
4:30pm to 6:00pm to	9:00pm 7:30pm	DEMOS an DINNER, C	nd POSTERS Grande Expo	-II, Grand A & C	e Expo I

1:30pm	8thFISC WEDNESDAY 4/	05/06
9A	RESERVOIR SEDIMENTATION-I	SILVER BARON D
Chair: Co-Chair	Tim Randall Yong Lai	
1:30pm	COMPARISON OF NUMERICAL MO REMOVAL OF SAVAGE RAPIDS DA	DDELS APPLIED TO AM NEAR GRANTS PASS,
1:50pm	TEMPORAL AND SPATIAL TRENDS CHEMISTRY IMPOUNDED WITHIN J	mothy Randle S IN SEDIMENT 4 FLOOD CONTROL
2:10pm	RESERVOIR: GRENADA LAKE, MS Rhoton, ShuMin Hsu, and Carlos V. Alonso ACOUSTIC PROFILING OF SEDIME THREE SMALL EROSION CONTRO	S: Sean J. Bennett, Fred E. NT ACCUMULATION IN L RESERVOIRS IN
2:30pm	NOR IH MISSISSIPPIA Del Leary, Crait SEDIMENTATION IN THREE SMALL RESERVOIRS IN NORTH MISSISSI Wells, Christopher G. Wilson, Charles M. C Lickov	g J. Hickey and Daniel G. Wrer L EROSION CONTROL PPI: Daniel G. Wren, Robert R cooper, Del Leary and Craig J.
•30nm	8thEISC WEDNESDAY 4/	15/06
9B	GULLY EROSION-II	SILVER BARON 1-3
Chair: Co-Chair	Glen Miller Robert Wells	
		SES SOUTHEASTEDN
1:30pm	<b>TERMINATION OF GULLY PROCESS</b> <b>NIGERIA:</b> Peter P. Hudec, Frank Simpson,	Enuvie G. Akpokodje and
1:30pm 1:50pm	TERMINATION OF GULLY PROCESS NIGERIA: Peter P. Hudec, Frank Simpson, Meshach O. Umeneke ASPECTS OF GULLY EROSION REL	Enuvie G. Akpokodje and ATED TO EMBANKMENT
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1:30pm 1:50pm 2:10pm 2:30pm :30pm 9C	TERMINATION OF GULLY PROCESS NIGERIA: Peter P. Hudec, Frank Simpson, Meshach O. Umeneke ASPECTS OF GULLY EROSION REL OVERTOPPING AND BREACH: Greg. PIPE FLOW IMPACTS ON EPHEMER Wilson, R.J. Cullum, and M.J.M. Romkens EPHEMERAL GULLY EROSION PRO ON THE LOESS PLATEAU IN CHINA Jiang, and Min Wu SthFISC WEDNESDAY 4/0 SEDIMENT SURROGATES-IV	Enuvie G. Akpokodje and ATED TO EMBANKMENT Hanson and Darrel Temple AL GULLY EROSION: G.V DCESS AND MODELING : Fen-li Zheng, Zhong-shan D5/06 SILVER BARON 4-6
1:30pm 1:50pm 2:10pm 2:30pm 2:30pm 30pm 9C	I ERMINATION OF GULLY PROCESS MIGERIA: Peter P. Hudec, Frank Simpson, Meshach O. Umeneke ASPECTS OF GULLY EROSION REL OVERTOPPING AND BREACH: Greg PIPE FLOW IMPACTS ON EPHEMER Wilson, R.J. Cullum, and M.J.M. Romkens EPHEMERAL GULLY EROSION PRO ON THE LOESS PLATEAU IN CHINA Jiang, and Min Wu 8thFISC WEDNESDAY 4/0 SEDIMENT SURROGATES-IV Kevin Knuuti Dourd Divon	Enuvie G. Akpokodje and ATED TO EMBANKMENT Hanson and Darrel Temple AL GULLY EROSION: G.V CESS AND MODELING : Fen-li Zheng, Zhong-shan D5/06 SILVER BARON 4-6
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- 1:50pm USING HIGH RESOLUTION BATHYMETRIC DATA FOR MEASURING BED-LOAD TRANSPORT: David D. Abraham and Roger Kuhnle 2:10pm PASSIVE ACOUSTIC MONITORING OF COARSE BEDLOAD
- 2:10pm PASSIVE ACOUSTIC MONITORING OF COARSE BEDLOAD TRANSPORT ON THE TRINITY RIVER: Jonathan Barton, Rudy Slingerland, Thomas B. Gabrielson, and Smokey Pittman
- 2:30pm SEDIMENT TRACKING: A COMPLEMENTARY METHOD FOR MEASUREMENT OF SEDIMENT TRANSPORT IN RIVERS: Kevin Black, Sam Athey, Peter Wilson

Gibson, Hydrologic Engineering Center, U.S. Army Corps of Engineers, Chester C. Watson, Colorado State University, and Colin R. Thorne, University of Nottingham. A simple, rigid approach to addressing channel rehabilitation projects is not available. There are too many variables that must be addressed for a one-size-fits all approach to channel modification activities. Because different river systems vary in geology, climate, ecology, hydrology, and hydraulics; methods utilized in one location may not be applicable to another location. A generalized systematic approach to addressing channel design has been developed to address the large variety of projects that may range from localized erosion problems that can be addressed using a simple reference reach methodology, to severe basin-wide problems that require a concentrated analysis and design effort. The objectives of this workshop are to introduce the methodology and procedures for accounting for sediment processes in the analysis and design of channel systems, with a particular emphasis on ensuring that sediment continuity be established on a regional basis. The utility of the newly developed Sediment Impact Assessment Model (SIAM) will also be demonstrated. The target audience for this workshop is personnel involved in channel restoration, sediment management, or any activities requiring the modification to channel systems. The following topics will be covered: The Channel Design Process, Sediment-related issues in stream analysis and design, Baseline Geomorphic Assessments, Introduction to SIAM, SIAM Case Study, and SIAM Application Workshop.

**Overview on Collection of Fluvial-Sediment Data.** Silver **Baron 1-2.** 1:00 pm to 5:00 pm, \$75 Instructors: John R. Gray and G. Douglas Glysson, U.S. Geological Survey. This short course provides an overview of basic fluvial-sediment data-collection techniques with emphasis on fluvial-sediment concepts, sampler characteristics, and sampling techniques. Methods for collecting suspended-sediment data are emphasized, but overviews of bedload and bed-material data collection techniques are included. Basic requirements for collecting sufficient, useful sediment data, and considerations in data quality are also presented. The course is geared for professionals and technicians who will be, or are planning on, collecting sediment data. U.S. Geological Survey Techniques of Water- Resources Investigations Book 3, C2, "Field Methods for Collection of Fluvial Sediment" and several dozen additional technical resources will be provided on a CD-ROM. This short course is a synopsis of the full 5-day course, "Sediment Data Collection Techniques," offered annually by the U.S. Geological Survey in Castle Rock and Vancouver, Washington.

## MONDAY - MORNING, April 3, 2006

8:00am Speakers' Breakfast, Silver Baron A

8:30am Pre-Conference BREAK, Grande Expo B

OPENING	SESSION
9:30am, MONDAY 04/03/06	Grande Expo C
Call to order	Doug Glysson, JFIC Chair
Welcome statement	John Keys, Commissioner, BOR
Thoughts on the 3rd FIHMC	Donald Frevert, 3rd FIHMC Chair
Thoughts on the 8th FISC	Jerry Bernard, 8th FISC Chair
Panel on Hurricane Katrina	
The Storm	Dave Reed, NWS
The Hydrology and Flooding	Jeff Harris, USACE
The Water Quality and Sediment	Charlie Demas, USGS
Hurricanes on the Gulf Coast: Biological Impacts and Landscape Change.	Greg Smith, USGS

Noon Lunch on your own

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# MONDAY – AFTERNOON



RIVER BASIN AND THE ROLE OF WETLANDS IN REDUCING THEM: J.P.Schubauer-Berigan, W.B. Richardson, P.Hughes, L.Bartsch, J. Cavanaugh, R. Kreilling, M. Morrison

10:30am	3rdFIHMC WEDNESDAY 4/0	5/06
8D	PARAMETER ESTIMATIO CALIBRATION, AND SENSITIVITY ANALYSIS-I	N, SILVER BARON A I
Chair: Co-Chair	Thomas Nicholson Yakov Pachepsky	
10:30am	MODEL ABSTRACTION IN HYDROLOG Pachepsky, Andrey Guber, Rien van Genuchter Cady, Jirka Šimunek, Timothy Gish, Diederik Ja	IC MODELING: Yakov , Thomas Nicholson, Ralph cques, and Craig Daughtry
10:50am	COMPARISON OF SIMULATION RESUL BASED AND STATSGO-BASED PARAM DISTRIBUTED HYDROLOGIC MODEL: 1	. <i>TS USING SŠURĞO-</i> <i>IETERS IN A</i> Ziya Zhang, Victor Koren,
11:10am	Seann Reed, Michael Smith, and Fekadu Mored COMBINED ESTIMATION OF HYDROGU CONCEPTUAL MODEL, PARAMETER, J UNCERTAINTY: Philip D. Meyer, Ming Ye, S	a E <b>OLOGIC</b> AND SCENARIO hlomo P. Neuman, Mark L.
11:30am	Rockhold, Kirk J. Cantrell, and Thomas J. Nicho UNCERTAINTY ANAL YSIS AND HYDRR HYDRAULIC MODEL LINKAGE IN THE MODELING SYSTEM: Christopher M. Smer James Nelson	Ison D <b>LOGIC AND</b> WATERSHED noe, Ahmad Salah, and E.
10:30am	3rdFIHMC WEDNESDAY 4/0	95/06
8E	RIVER BASIN MANAGEMENT-II	SILVER BARON C
Chair: Co-Chair	Nancy Parker Thomas Evans	
10:30am	INTEGRATION OF RIVERWARE INTO 7 MANAGEMENT SYSTEM: Thomas Evans, and Edie Zangna	HE CORPS WATER Bill Oakley, Jerry Cotter,
10:50am	WATER OPERATIONS MODEL DEVELO SIMULATE SURFACE-WATER AND GR INTERACTIONS: D. Michael Roark	OPMENT TO OUND-WATER
11:10am	THE LAND ATMOSPHERE WATER SIM Michael Tansey	ULATOR (LAWS):
11:30am	ANALYSIS OF ALTERED HYDROLOGIC CLINTON RIVER: Bruce Halverson, Rob Na James P. Selegean	C REGIME IN THE irn, Alex Brunton, and
10:30am	3rdFIHMC WEDNESDAY 4/0	5/06
8F	SURFACE WATER / GROUND WATER MODELING-II	SILVER BARON E
Chair: Co-Chair	Jayantha Obeysekera Cary Talbot	
10:30am	AN INTEGRATED THREE-DIMENSIONA AND GROUNDWATER MODEL TO SIMU HYDRODYNAMICS AND THERMAL AND TRANSPORT: Gour-Tsyh (George) Yeh, Hua Tian Shuen Wu	<i>L SURFACE WATER</i> <i>JLATE</i> <i>D SALINITY</i> I Shan, Gordon Hu, and
10:50am	THE USACE TOOLBOX OF MODELS FC DIMENSIONAL SURFACE WATER-GRC INTERACTION STUDIES: Cary Talbot	DR MULTI- DUNDWATER
11:10am	INTRODUCTION TO THE INTEGRATED MODEL: Jeffrey Geurink, Ken Trout, and Mark	HYDROLOGIC Ross
11:30am	AN INTEGRATED SURFACE SUBSURF WESTERN ORANGE AND SEMINOLE O Sorab Panday and Brian Mc Gurk	ace model in Counties, florida:
	Noon Lunch on your ov	vn

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10:30am	10:30am 8thFISC WEDNESDAY 4/05/06		
8A	WATERSHED MODELING-VII	SILVER BARON D	
Chair: Co-Chair	Jorge Pagan Chris Knopp		
10:30am 10:50am	PREDICTING WATERSHED IMP MANAGEMENT WITH WEPP TE A GEOMORPHIC EVALUATION	ACTS OF FOREST FUEL CHNOLOGY: William J. Elliot WITH CALIBRATED	
11:10am	HYDRAULIC AND HYDROLOGII BROOK WATERSHED IN MASS MULTIPLE APPROACHES TO A DAMS ON SEDIMENT DELIVER WATERSHED, MICHIGAN/ILLIN	; MODELING OF THE HOP ACHUSETTS: Thomas Garday SSESSING THE IMPACT OF Y IN THE ST. JOSEPH RIVER OIS: Rob Nairn, Alex Brunton, and	
11:30am	Jim Selegean <i>CUMULATIVE WATERSHED EF,</i> <i>GEOSPATIAL INTERFACE FOR</i> <i>PREDICTION PROJECT (GEOW</i> William J. Elliot	FECTS ANALYSIS WITH THE THE WATER EROSION EPP): Dr. Chris S. Renschler and	
10:30am	8thFISC WEDNESDAY	4/05/06	
8B	GULLY EROSION-I	SILVER BARON 1-3	
Chair: Co-Chair	Daniel Meyer Robert Wells		
10:30am	IMPACT OF NON-ERODIBLE LA DEVELOPMENT: Robert R. Wells, I Carlos Alonso	YER ON EPHEMERAL GULLY Lee Gordon, Sean Bennett, and	
10:50am	STUDY OF THE EFFECTS OF LI ON TENSION-CRACK DEVELOP DIMENSIONS AND MIGRATION	ATERAL SEEPAGE FORCES PMENT, BANK-FAILURE OF EDGE OF FIELD	
11:10am	GULLIES: Andrew Simon and Rober EVALUATION OF THE IMPACT SEDIMENT LOADING WITHIN W	t R. Wells OF EPHEMERAL GULLIES ON (ATERSHEDS USING AGNPS:	
11:30am	Ronald L. Bingner, Fred Theurer, and . ASSESSING EPHEMERAL GULI LAKE WATERSHED USING GIS ANNAGNPS MODEL: Lyle Frees, . Devlin	lim Stafford LY EROSION IN THE CHENEY . REGEM AND THE leffery Neel, Kent McVay & Daniel	
10:30am	8thFISC WEDNESDAY	4/05/06	
8C	SEDIMENT SURROGATES-III	SILVER BARON 4-6	
Chair: Co-Chair	Doug Norton Roger Kuhnle		
10:30am	CONTINUOUS IN-STREAM MON WATER-QUALITY CHARACTER SOURCES IN THE LITTLE ARKA	IITORING TO ESTIMATE ISTICS AND SEDIMENT ANSAS RIVER, KANSAS:	
10:50am	Andrew C. Ziegler, Victoria G. Christen REAL-TIME ANALYSIS OF CON SUSPENDED SEDIMENTS: Chris	sen, and Patrick P. Rasmussen <i>CENTRATED FLUVIAL</i> Konrad, Chuck Pottsmith, Ted	
11:10am	Mells, and David Rubin PREDICTION OF GRAIN SIZE O IMPLICATIONS FOR CALCULAT CONCENTRATIONS LISING SIM	F SUSPENDED SEDIMENT: TING SUSPENDED SEDIMENT GLE EREQUENCY ACOUSTIC	
11:30am	BACKSCATTER: Roger Kuhnle, Dz USING ACOUSTIC BACKSCATT MEASURE SUSPENDED SEDIM IDAHO STREAMS: Jon Hortness	iniel Wren, and James P. Chambers TER TECHNOLOGY TO ENT CONCENTRATIONS IN	

1:30pm	1:30pm 3rdFIHMC MONDAY 4/03/06			
1D	WATERS	HED		SILVER
	MODELIN	NG-I		BARON A
Chair: Co-Chair	Ann Banitt Darius Semme	ns		
1:30pm 1:50pm	THE DISTRIBUTERCOMPA PHASE 2: Mict Moreda, Zhengta AUTOMATED (AGWA): A GI WATERSHED ASSESSMENT	I ED HYDRO IRISON PROJ nael Smith, Victo o Cui, Fan Lei, S GEOSPATIAI S-BASED HY MANAGEME T: David Goodrid	IL OGIC MODEL IECT (DMIP): AN or Koren, Seann Re Shuzheng Cong, ar L WATERSHED DROLOGIC MOL NT AND LANDS ch, Soren Scott, Ma	I OVERVIEW OF ed, Ziya Zhang, Fekadu d Dong-Jun Seo ASSESSMENT DELING TOOL FOR CAPE riano Hernandez, Shea
2:10pm	Burns, Lainie Lev Miller, and Phil G TOWARDS AI NETWORK CH ASSESSMEN	νιcκ, Averill Cate uertin V AUTOMATE HARACTERIZI T: Darius Semm	, william Kepner, D TO TOOL FOR Cl ATION, MODELI ens, Scott Miller, ai	arius Semmens, Scott HANNEL- ING, AND nd David Goodrich
2:30pm	AMC AND NR	CS RAINFALI	L-RUNOFF MOD	ELS: Colin A. Niehus
1:30pm	3rdFIHMC	MONDA	4/03/06	
1E	INTER-A	GENCY		SILVER
	COLLAB	ORATIO	N	BARON C
Co Chair:	Thomas Nichol	son		
				505044
1:30pm	PARTNERING AGENCIES FO	WITH FEDER DR HYDROLO VT: Darryl W D:	KAL AND NON-F OGIC ENGINEER avis	EDERAL ING MODEL
1:50pm	INTERAGENC PROGRAM: U TIGRIS AND E RECONSTRUE	Y COOPERA SACE-HEC H UPHRATES I CTION PROG	TION IN AN INTL YDROLOGIC M N SUPPORT OF RAM IN IRAQ: D	ERNATIONAL DDELING OF THE USAID arryl W. Davis, Fauwaz
2:10pm	U. Hanbali, and M FORECAST-C FEATHER RIV COOPERATIC	Matthew M. McP COORDINATED CER RESERVO DV: Rob Hartma	herson D OPERATIONS DIR SYSTEM: IN n, David Ford, Art H	FOR THE YUBA- TERAGENCY Iinojosa, Curt Aikens,
2:30pm	THE USDA CO LABORATOR FOR FACILITA DEVELOPMEN	DLLABORATI Y (COLAB) PI ATING INTER- VT: Frank Geter	VE SOFTWARE ROVIDES A FLE AGENCY PROJ , Ken Rojas, and O	DEVELOPMENT XIBLE SYSTEM ECT laf David
1:30pm	3rdFIHMC	MONDA	4/03/06	
1F	WATER (	QUALITY NG-I		SILVER BARON E
Chair: Co-Chair	Michael Reddy Scott Fant			
1:30pm	DEVELOPME	VT OF A DIST	RIBUTED WATE	RSHED WATER
1:50pm	QUALITY MOL INTEGRATED WATER OUAI	DEL: Billy E. Jo MODELING ( TY: Dalmo A	hnson and Terry K. DF WATERSHEL Vieira and Mustafa	Gerald D AND STREAM S. Altinakar
2:10pm	A FLEXIBLE A FATE/TRANSI	ND EASY-TO PORT MODEL	-USE CONTAM FOR STREAM	<b>IVANT</b> S: Scott Fant and Mark
2:30pm	DOTION DEVELOPMEN ANNAGNPS: J and J. Boydstun	NT OF A TMD A CASE STUL	<i>L IMPLEMENTA</i> D <b>Y:</b> Y. Yuan, R. L.	TION PLAN USING Bingner, F. D. Theurer,
	3:00pm	BREAK	Grande Exp	о В

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			0.50411	SIGFINIC WEDNESDAT	4/03/00
A	SEDIMENT YIELD & TRANSPORT-II	SILVER BARON D	7D	PARAMETER ESTIMAT CALIBRATION, AND	TION, SILV BAR
Chair: p-Chair	John Potyondy Glenn Miller		Chair:	SENSITIVITY ANALYSI	5-1
:30pm	PREDICTING SEDIMENT DISCHARGE	FROM FOREST	Co-Chair	Brian Skahill	
	ROADS: THE ROLE OF SURFACE RU	INOFF AND RAINFALL	8:30am	USE OF REGULARIZATION AS A M	ETHOD FOR WATE
3:50pm	EROSION CONTROL IN COTTON PRO THE USE OF ULTRA NARROW ROW: R. Johnson, K. C. McGregor	R. F. Cullum, G. V. Wilson, J.	8:50am	MODEL CALIBRATION: Brian E. Skat USE OF REMOTELY SENSED SNOI WATERSHED MODEL CALIBRATIC DIVER. ODECOM LOURD E. LIDY COOL	hill and John Doherty W COVERED AREA IN FOR THE SPRACE
:10pm	HILLSIDE EROSION AND SMALL WA YIELD FOLLOWING A WILDFIRE ON EXPERIMENTAL FOREST, SOUTHER	TERSHED SEDIMENT THE SAN DIMAS N CA: Peter M. Wohlgemuth	9:10am	Clark EVALUATION OF ENSEMBLE WAT USING MUI TIPI F PARAMETER SE	ER-SUPPLY FOREC
:30pm	SIMULATION OF FLOOD FLOW AND	SEDIMENT TRANSPORT		KLAMATH BASIN, OREGON AND C	CALIFORNIA: John C
	Andrey B. Shvidchenko, Brad R. Hall, and L Vermeeren and Cuong T. Ly	loseph Howard, Rene A.	9:30am	and Lauren E. Hay CALIBRATION OF HYDROLOGIC E ESTIMATING THE FLOOD PEAK IN	MPIRICAL METHOL THE UROMIA LAKI
30pm	8thFISC MONDAY 4/03/06			WATERSHED IN IRAN: Ali Akbar Jama	ali and Seyed Ali Ayyou
2B		SILVER	8:30am	3rdFIHMC WEDNESDAY	4/05/06
	GEOMORPHOLOG 1-11	BARON 1-3	75	RIVER BASIN	SII VE
Chair:	Paul Pedone Kelsi Bracmort		1'	MANAGEMENT-I	BARON
.20mm			Chair:	William Charley	
:30pm	RIVER WATERSHED, MICHIGAN: INT	EGRATION OF	Co-Chair	Nancy Parker	
	EMPIRICAL AND ANALYTICAL TECH FRAMEWORK: Alex Brunton, Rob Nairn ar	<i>NIQUES IN A GIS</i> nd Jim Selegean	8:30am	CALSIM APPLICATIONS IN THE KL	AMATH RIVER BAS
:50pm	TEMPORAL VARIATIONS OF SCOUR	AND FILL PROCESSES	8:50am	MODELING THE OHIO RIVER: NOT	JUST FOR FLOOD
:10pm	GEOMORPHIC CONTEXT FOR HISTO OF SEDIMENT SOURCES, TRANSPO.	RICAL DETERMINATION RT, AND DEPOSITION IN	9:10am	ANYMORE: Deborah H. Lee and Stanley MULTIDIMENSIONAL MODELING C MISSISSIPPI RIVER: Ehab A. Meselhe,	r M. Wisbith <b>DF THE LOWER</b> , Emad Habib, Alonso G
	<i>THE BAD RIVER WATERSHED, BAD WISCONSIN:</i> Faith A. Fitzpatrick, Kirsten A	RIVER RESERVATION, . Cahow-Scholtes, and Marie		Griborio, Shankar Gautam, John A. McCor Georgiou	quodale, and loannis Y.
:30pm	C. Peppler A RIVER EVOLUTION OF ADJACENT UNSTABLE URBAN WATERSHEDS II	STABLE AND V SAN JOSE,	9:30am	RESERVOIR OPERATIONS MODEL Joan D. Klipsch and Thomas A. Evans	ING WITH HEC-RES
	CALIFORNIA: Brett Jordan, W.K. Annable,	C.C. Watson			
30nm	STATISC MONDAY 4/02/06		8:30am	3rdFIHMC WEDNESDAY	4/05/06
	SEDIMENT		7F		SILVE
.C	RESEARCH-II	SILVER BADON 4-6		MODELING I	BARUN
Chair:	John Gray	BARON 4-0	Chair:	Jayantha Obeysekera	
o-Chair	Gardner Bent		Co-Chair	Steve Markstrom	
:30pm	THE ISOKINETIC STREAMLINED SUS PROFILING LISST-SL – STATUS AND Agrawal and H.C. Pottsmith	SPENDED SEDIMENT FIELD RESULTS: Y.C.	8:30am	SIMULATING FLOW AND CONTAM INTEGRATED SURFACE-SUBSURF MODEL APPLICATIONS AT MULTIN	INANT TRANSPORT FACE FLOW SYSTE PLE CATCHMENT S
:50pm	FISP'S SUITE OF FEDERALLY APPR SEDIMENT / WATER QUALITY COLL/ SAMPLERS: Broderick Davis	OVED SUSPENDED- APSIBLE-BAG	8·50am	E.A. Sudicky1, J.P. Jones, JM. Lemieux, McLaren FULLY-INTEGRATED SURFACE AN	YJ. Park, D. Colautti ar
1:10pm	A TIDALLY- AVERAGED SEDIMENT T THE SAN FRANCISCO BAY, CALIFOR David H. Schoellhamer, Jon Leatherbarrow, a	<b>FRANSPORT MODEL OF</b> R <b>NIA:</b> Megan A. Lionberger, nd Kris May	0.00411	FOR CONJUNCTIVE ANALYSIS OF RELIABILITY, WATER QUALITY AN G.B. Matanga, L. Gessford, K. E. Nelson, E	WATER SUPPLY ID ECOSYSTEM HE D. DeMarco E. Sudicky,
30pm	A UNIFIED APPROACH FOR RIVER IN SEDIMENT TRANSPORT, AND EROS Yang	IORPHOLOGY, ION STUDIES: Chih Ted	9:10am	Therrien, S. Panday, and R. McLaren GSFLOW—A BASIN-SCALE MODE SIMULATION OF GROUND-WATER	L FOR COUPLED

 

 RUNUFF MUDELING SYSTEM: S.L. Markstrom, R.S. Kegan, K.G.

 Niswonger, D.E. Prudic, and R.J. Viger

 9:30am

 GSFLOW-A BASIN-SCALE MODEL FOR COUPLED

 SIMULATION OF GROUND-WATER AND SURFACE-WATER

 FLOW-PART B CONCEPTS FOR MODELING SATURATED

 AND UNSATURATED SUBSURFACE FLOW WITH THE U.S.

 GEOLOGICAL SURVEY MODULLAR GROUND-WATER MODEL:

 D.C. MICHAGED DE LENGER

R.G. Niswonger, D.E. Prudic, S.L. Markstrom, R.S. Regan, and R.J. Viger - 24 -

# WEDNESDAY - MORNING

7:15am Speakers' Breakfast, *Grande Expo C* 

8:30am	8thFISC WEDNESDAY	4/05/06
7Δ	WATERSHED	SILVER
	MODELING-VI	BARON D
Chair:	Drew Baird	
Co-Chair	Jeff Bradley	
8:30am	WATERSHED SIMULATION WIT	TH AN ENHANCED
8.50am	DISTRIBUTED MODEL: Yong G. L ANNAGNPS: ACCOUNTING FO	.ai, Ph.D. <b>R SNOWPACK_SNOWMFLT</b>
0.50411	FREEZING AND SOIL FREEZE-	THAW: Daniel S. Moore, Fred D.
0.10am	Theurer, Ronald L. Bingner	Ι ΛΔΠ ΛΛΝΛΈΡΤ ΙΝ
9.10diii	REGIONAL SEDIMENT MANAG	EMENT: David S. Biedenharn, Colin
0.200m	R. Thorne, Chester C. Watson	
9:30am	RESERVOIR DEPOSITS: Blair Gr	eimann, Victor Huang
		0
0.00		
8:30am	8thFISC WEDNESDAY	4/05/06
7B	DAM REMOVAL /	SILVER
	REHABILITATION	BARON 1-3
Chair:	Bill Jackson	
Co-Chair	Janine Castro	
8:30am	GEOMORPHIC RESPONSE OF	RIVERS TO DAM REMOVAL:
	NEW INSIGHTS FROM FLUME	EXPERIMENTS AND FIELD
8.50am	SEDIMENT DYNAMICS POST D	AM REMOVAL: STATE OF THE
0.000	SCIENCE AND PRACTICE: Laura	Wildman, Cassie Klumpp, Blair
9·10am	ATURAL RESOURCES CONSI	<i>ERVATION SERVICE</i>
7.100111	WATERSHED REHABILITATION	I IN OKLAHOMA – A
0.20am	SECLOGICAL PERSPECTIVE: ( NUMERICAL SIMULATION OF (	Gien B. Miller CHANNEL ADJUSTMENT OF
7.50411	THE KALAMAZOO RIVER FOLL	OWING THE REMOVAL OF
	TWO LOW-HEAD DAMS BETWE PLAINWELL MICHIGAN Eddy L	EEN OTSEGO AND
	T ET INWEEL, MICHIGAN, Eddy 3.	Eangendoen and Robert R. Weils
8:30am	8thFISC WEDNESDAY	4/05/06
70	SEDIMENT	SII VER
10	SURROGATES-II	BARON 4-6
Chair:	Thad Pratt	Britten 40
Co-Chair	Larry Freeman	
8:30am	A METHOD FOR COMPARING	THE LISST 100 TO THE USGS
	SIZE ANALYSIS IN THE MARIN	NDED SEDIMENT PARTICLE A SEDIMENT LAB. U.S.
	GEOLOGICAL SURVEY, CALIF	ORNIA WATER SCIENCE
0.5000	CENTER: Lawrence A. Freeman	E SUSPENDED SEDIMENT
MBUC:0	DISCHARGE IN THE TIDAL HUI	DSON RIVER, NY: Gary R. Wall,
0.10	Elizabeth Nystrom, and Simon Litten	
9:10am	STATIONS: Jason Kean and Dunga	n Smith
		NOIN OF ADDADENT

9:30am CROSS-SECTIONAL PROGRESSION OF APPARENT BEDLOAD VELOCITIES: Terry A. Kenney

2.2000	21-JEILING MONDAY 4/02	/06
2D	WATERSHED MODELING-II	SILVER BARON A
Chair: Co-Chair	Darius Semmens Matthew Fleming	
3:30pm	WATERSHED ENVIRONMENTAL H MODEL: M.L.Kavvas, Z.Q.Chen, N.Ohara	YDROLOGY (WEHY) 11, L.Liang, C. Dogrul,
3:50pm	M.L.Anderson, J.Y.Yoon, J.Yoshitani, K.Fuk NEW MODELING CAPABILITIES IN THE MILL CREEK BASIN: Matthew FI	kami, T.Matsuura HEC-HMS APPLIED TO eming and Jeff Harris
4:10pm	GSSHA WATERSHED MODELING F RIVER BASIN, WI: Ann.M.Banitt	OR THE EAU GALLE
4:30pm	MODELING WEILANDS IN A MULT. HYDROLOGIC MODEL: Aaron Byrd, F Justin Niedzialek, and E. James Nelson	I-DIMENSIONAL red L. Ogden, Robbie Jenkins,
3:30pm	3rdFIHMC MONDAY 4/03	/06
2E	OBSERVATION AND INSTRUMENTATION	SILVER BARON C
Chair: Co-Chair	Claudia Scheer Thomas Jackson	
3:30pm	THE HYDROS AND SMOS SATELLI MOISTURE MAPPING: Thomas J. Jack	TES: GLOBAL SOIL (son and Dara Entekhabi
3:50pm	REMOTE SENSING FOR ANNAGNP METHOD OF CROP TYPE IDENTIFIC TEMPORAL LANDSAT: Jamas Case	PS TO DEVELOP A CATION WITH MULTI- Kovin Czaikowski, and Ling Vao
4:10pm	APPLICATION OF AN EXPERIMENT SCANNER FOR SURVEYING BRAIL	TAL AIRBORNE LASER DED RIVER CHANNELS:
4:30pm	Paul J. Kinzel, C. Wayne Wright, and Jonat USING RADAR TO MEASURE REAL John Fulton and Joe Ostrowski	han M. Nelson <i>TIME STREAMFLOW:</i>
3:30pm	3rdFIHMC MONDAY 4/03	/06
2F	WATER QUALITY MODELING-II	SILVER BARON E
Chair: Co-Chair	Michael Reddy Billy Johnson	
3:30pm	WATER QUALITY MODELING OF TA BASIN: Sung-Chan Kim and Carl F. Cerco	HE CHESTER RIVER
3:50pm	DEVELOPMENT OF A DISTRIBUTED TRANSPORT MODEL FOR MILITAR	D SOURCE CONTAMINAN RY INSTALLATIONS: Billy E.
4:10pm	MODELING BRACKISH AQUIFER S WITH THE WASH123D NUMERICAL	TORAGE RECOVERY MODEL: S. M. England, HP.
4:30pm	Cheng, G. I. Stevens, E. V. Edris, and C. J CE-QUAL-W2 ANIMATIONS OF RES LESSONS LEARNED: Merlynn Bender	. Brown SERVOIR CASE STUDIES -
	Eat 12 to a C	Destant

5.15pm to 6.15pm	Exhibitors'	Reception, Poster
5.15pm to 0.45pm	Session-I	Grande Expo B

## **TUESDAY – MORNING**

#### 7:15am Speakers' Breakfast, *Grande Expo C*

8:30am	8thFISC TUESDAY 4/04/	/06
3A	SEDIMENT YIELD & TRANSPORT-III	SILVER BARON C
Chair: Co-Chair	Chester Watson Dennis Richards	
8:30am	SEDIMENT TRANSPORT COMPUT	ATIONS WITH HEC-RAS:
8:50am	IMPLEMENTATION OF THE SEDIN ASSESSMENT MODEL (SIAM) IN P	<i>MENT IMPACT</i> HEC-RAS: Stanford A. Gibson
9:10am	SEDIMENT INVESTIGATION AND S FOR THE LOWER MUD RIVER : Ma	STABLE CHANNEL DESIGN rtin J. Teal and Phillip A.
9:30am	Anderson SEDIMENT IMPACT ANALYSIS FC FLOOD STRATEGY STUDY: Ian M. Colin R. Thorne	DR THE LOWER THAMES Tomes, Oliver P. Harmar, and
8:30am	8thFISC TUESDAY 4/04	/06
3B	GEOMORPHOLOGY-I	II SILVER BARON E
Chair: Co-Chair	Robert Padilla Bill Jackson	
8:30am	INTEGRATING TWO SEDIMENTAT DETERMINE CHANNEL AD JUSTM	TION RATE METHODS TO
8:50am	Richard A. Cahill, Richard L. Allgire EFFECTS OF REGULARLY REVER ON SEDIMENT TRANSPORT IN A	RSING ENERGY GRADIENTS TIDAL WETLAND SYSTEM:
9:10am	Kevin Knuuti RECENT CHANNEL INCISION AND WITHIN THE MIDDLE RIO GRAND	D FLOODPLAIN EVOLUTION E, NM: Tamara Massong, Paul
9:30am	Tashjian, and Paula Makar TEMPORAL AND SPATIAL VARIA REINFORCEMENT OF STREAMBA GEOTECHNICAL PROPERTIES AI	BILITY IN ROOT- ANKS: ACCOUNTING FOR ND MOISTURE: Natasha Pollen
	and Andrew Simon	
8:30am	8thFISC TUESDAY 4/04/	/06
3C	SEDIMENT RESEARCH-III	SILVER BARON A
Chair: Co-Chair	Mathias Römkens Mark Weltz	
8:30am	REGEM: THE REVISED EPHEMER MODEL: Lee Gordon, Sean Bennett, Fre	AL GULLY EROSION ed Theurer, Ron Bingner, Carlos
8:50am	SEDIMENT INVESTIGATIONS IN T RIVER COMPLEX, LOUISIANA: RE DIVED OUTEL OW CHANNEL HIS	THE VICINITY OF THE OLD ED RIVER ABOVE OLD
9:10am	AN APPARATUS FOR BED MATER EXTRACTION FROM COARSE RIV ALLUVIAL RIVERS: Michael Bliss Sin	<i>RIAL SEDIMENT</i> <i>FR BEDS IN LARGE</i> ger, Stacy Cepello, and Adam
9:30am	Henderson ANALYZING SEDIMENT YIELDS IN TMDL'S: Mary Ann Madei, Randy Klein.	V THE CONTEXT OF Vicki Ozaki & Tom Marquette

#### 3:30pm 3rdFIHMC TUESDAY 4/04/06 WATERSHED AND RIVER **6D** SILVER SYSTEM MODELING **BARON D PROGRAM-III** Chair: Merlynn Bender Co-Chair Jeff Rieker WATER ACCOUNTING IN THE TRUCKEE BASIN RIVERWARE 3:30pm MODEL: Jeff Boyer HYDROLOGIC FORECASTING IN THE TRUCKEE-CARSON 3:50pm RIVERWARE SYSTEM: Mike Mann: Presented by Tom Scott SIMULATING OPERATIONS IN THE TRUCKEE-CARSON 4:10pm RIVERWARE SYSTEM: Shane Coors 4:30pm DECISION SUPPORT FOR WATER QUALITY RELEASES ON THE TRUCKEE RIVER: Jeffrey D. Rieker 3:30pm 3rdFIHMC TUESDAY 4/04/06 SILVER 6E **MODELING SYSTEMS-II** BARON 1-3 Chair: David Goodrich Co-Chair Christopher Dunn 3:30pm INTEGRATING HYDROLOGIC MODELS AND SPATIAL DATA IN A DISTRIBUTED INTERNET APPLICATION: Averill Cate, Jr., David C. Goodrich, and D. Phillip Guertin 3:50pm NRCS GEO-HYDRO – HYDROLOGIC MODEL GIS INTERFACE: William Merkel and Su Liu 4:10pm THE DEVELOPMENT OF A SOFTWARE INTEGRATION TOOL FOR WATERSHED STUDIES - THE HYDROLOGIC ENGINEERING CENTER'S WATERSHED ANALYSIS TOOL (HEC-WAT): Christopher N. Dunn HYDROLOGIC MODELING SYSTEM (HEC-HMS): NEW 4:30pm FEATURES FOR URBAN HYDROLOGY: Matthew J. Fleming and William A. Scharffenberg 3:30pm 3rdFIHMC TUESDAY 4/04/06 RIVER ENVIRONMENT SILVER 6F AND AQUATIC BARON 4-6 **ECOSYSTEMS-IV** Chair: Mark Riedel Co-Chair Terry Kenney MODELING STREAM CHANNEL ADJUSTMENT TO WOODY 3:30pm VEGETATION: Sean J. Bennett, Weiming Wu, Carlos V. Alonso, and Sam S. Y. Wang

- 3:50pm VERIFICATION OF AN UNCALIBRATED TWO-DIMENSIONAL HYDRAULIC MODEL WITH VELOCITY AND REMOTE IMAGERY: Terry A. Kenney
- 4:10pm THE TRINITY RIVER RESTORATION PROGRAM: Andreas Krause 4:30pm SEDIMENT TRANSPORT MONITORING DURING A
- 4.30pm Schwerker in the second for t



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- 13 -

#### 3:30pm 8thFISC TUESDAY 4/04/06

# 6A WATERSHED MODELING-V

Chair: Martin Teal Co-Chair John Potyondy

3:30pm EVALUATING SEDIMENT PROCESSES, AND TRANSPORT PROCESSES IN THE UPPER YUBA RIVER WATERSHED, CALIFORNIA: Jennifer A. Curtis, Lorraine E. Flint, Charles N. Alpers, and Scott A. Wright

SILVER

BARON C

- 3:50pm *EFFECTS OF CLIMATE ON FLOW AND SEDIMENT TRANSPORT IN THE UPPER YUBA RIVER BASIN, NORTHERN SIERRA NEVADA:* Lorraine E. Flint, Joel R. Guay, Alan L. Flint, and Jennifer A. Curtis
- 4:10pm MODELING SYSTEMS FOR SEDIMENT MANAGEMENT AND BMP EVALUATION IN LARGE GREAT LAKES TRIBUTARY WATERSHEDS: Theresa Possley, Alex Brunton and Rob Nairn and Jim Selegean
- 4:30pm DEVELOPMENT OF UPPER BOUNDARY CONDITIONS FOR A WATERSHED MODEL IN THE UPPER YUBA RIVER BASIN, NORTHERN SIERRA NEVADA: Alan L. Flint and Lorraine E. Flint

#### 3:30pm 8thFISC TUESDAY 4/04/06 STREAM SILVER 6B **RESTORATION-II** BARON E Chair: Jeff Bradlev Co-Chair Ted Yang RESTORATION OF LOWER LAS VEGAS WASH - UPPER 3:30pm DIVERSION WEIR: Chris Bahner, Gerry A. Hester, Dr. Syndi J. Dudley SIAM, SEDIMENT IMPACT ANALYSIS METHODS, FOR 3:50pm EVALUATING SEDIMENTATION CAUSES AND EFFECTS: David Mooney 4:10pm RIO SALADO (SALT RIVER) HABITAT RESTORATION - LOW

4:10pm *KIO SALADO (SALT INVER) HABITAT RESTORATION - LOW FLOW CHANNEL DESIGN*; Dennis L. Richards and Glenn Mashburn JUDY'S BRANCH, ILLINOIS REHABILITATION PLAN: Chester C. Watson, David S. Biedenharn and Moosub Eom

3:30pm	8thFISC TUESDAY	4/04/06
6C	SEDIMENT SURROGATES-I	SILVER BARON A
Chair: Co-Chair	Gardner Bent David Topping	
3:30pm	DEVELOPMENT OF AN ACC MONITORING SYSTEM: Dani James Chambers	DUSTIC SUSPENDED SEDIMENT el E. Kleinert, Daniel Wren, Chris Smith,
3:50pm	ESTIMATION OF PARTICLE NARROW SIZE DISTRIBUTI SUSPENDED IN WATER US ACOUSTIC BACKSCATTER. James P. Chambers	SIZES FOR A RANGE OF DNS OF NATURAL SANDS ING MULTI-FREQUENCY Christopher K. Smith, Daniel Wren,
4:10pm	HIGH-RESOLUTION MONITO SEDIMENT CONCENTRATIO COLORADO RIVER IN GRAI DIFFRACTION INSTRUMEN ACOUSTIC SYSTEM: David J. Wight and David M. Ruhin	DRING OF SUSPENDED- IN AND GRAIN SIZE IN THE IND CANYON USING LASER- ITS AND A THREE-FREQUENCY Topping, Theodore S. Melis, Scott A.
4:30pm	COMPARISON OF SUSPENI ESTIMATES USING A TURB SEDIMENT CONCENTRATIC GRAPHICAL CONSTITUENT (GCLAS): Mark A Uhrich and He	DED-SEDIMENT LOAD IDITYAND SUSPENDED- IDI REGRESSION AND THE I LOADING ANALYSIS SYSTEM ather M Bragg

#### 8:30am 3rdFIHMC TUESDAY 4/04/06 WATER QUALITY SILVER 3D **MODELING-III** BARON D Chair: Michael Reddy Co-Chair Josh Linard USE OF A GEOGRAPHIC INFORMATION SYSTEM TO ADD A 8:30am SPATIAL COMPONENT IN WATER-QUALITY MODEL VARIABLES TO ESTIMATE ATRAZINE LOADING IN MORGAN CREEK, MARYLAND: M.E. Wieczorek and D.M. Wolock THE WATER, ENERGY, AND BIOGEOCHEMICAL MODEL 8:50am (WEBMOD): A TOPMODEL APPLICATION DEVELOPED WITHIN THE MODULAR MODELING SYSTEM: R.M.T. Webb, J.I. Linard, and M.E. Wieczorek 9:10am RAINFALL-RUNOFF MODELING TO COMPARE HYDROLOGICAL PROCESSES GOVERNING SOLUTE TRANSPORT IN AN AGRICULTURAL WATERSHED IN MARYLAND: J.I. Linard, D.M. Wolock, R.M.T. Webb, and M.E. Wieczorek 9:30am STATISTICAL EXTRAPOLATION OF RECHARGE RATES AND SOLUTE FLUXES WITHIN FIVE AGRICULTURAL WATERSHEDS: Richard M.T. Webb, Randall Bayless, Tracey Connell Hancock, Joshua I. Linard, Michael Wieczorek, Bernard T. Nolan, Jack Barbash, and Richard Healy 8:30am 3rdFIHMC TUESDAY 4/04/06 WATERSHED 3E SILVER MODELING-III BARON 1-3 Chair: David Ford Co-Chair George Leavesley WATERSHED MODELING OF MUSTANG CREEK, 8:30am CALIFORNIA, USING THE SOIL AND WATER ASSESSMENT TOOL (SWAT): Dina Saleh ADAPTIVE WATERSHED MODELING TOOLS TO SUPPORT 8:50am ECOSYSTEM MANAGEMENT: George Leavesley, Jim Chew, Roland Viger, Christine Turner, Richard Zirbes, and Zack Bowen 9:10am DEVELOPMENT OF AN INTEGRATED PHYSICAL AND ENGINEERING HYDROLOGIC MODEL OF THE RIO GRANDE: Douglas P. Boyle, Ramon Naranjo, Steven L. Markstrom, and George H. Leavesley 9:30am HYDROLOGICAL MODELLING IN THE GERA CATCHMENT – MULTI-SCALE INVESTIGATIONS IN A MESOSCALE CATCHMENT: Peter Krause, Frank Base, Ulrike Bende-Michl, Manfred Fink, Wolfgang-Albert Flügel, Bjorn Pfenning, Douglas P. Boyle, and Steven

8:30am 3rdFIHMC TUESDAY 4/04/06					
3F	RIVER ENVIRONMENT AND AQUATIC ECOSYSTEMS-I	SILVER BARON 4-6			
Chair: Co-Chair	Laurel Saito Jerad Bales				
0.200m					
8:30am	STREAM METABOLISM: Jorad Balas an	nd Mark Nardi			
8.50am	SPARROW MODELS OF FISH COMM	<b>UNITY METRICS:</b> Richard			
0.50411	A Smith Richard B Alexander Gregory E Schwarz Daren M Carlisle and				
9:10am	Michael R. Meador DEVELOPMENT AND USE OF NEW R W2 TO BLEND WATER FROM MULTI OUTLIETS TO MEET DOWNSTREAM	OUTINES IN CE-QUAL- PLE RESERVOIR TEMPERATURE			
9:30am	TARGETS: Stewart A. Rounds and Annett I A TWENTY-YEAR HISTORY OF ENVII IN CHESAPEAKE BAY: Carl.F.Cerco	B. Sullivan RONMENTAL MODELING			

L. Markstrom

10:00am BREAK Grande Expo B

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10:30am	8thFISC TUESDAY 4/04/06				
4A	SEDIMENT YIELD & TRANSPORT-IV	SILVER BARON C			
Chair: Co-Chair	Mark Weltz Kevin Knuuti				
10:30am	PERFORMANCE OF BED LOAD TRAN MOUNTAIN GRAVEL-BED RIVERS: A Barry, John M. Buffington, John G. King, and P	SPORT EQUATIONS IN RE-ANALYSIS: Jeffrey J. eter Goodwin			
10:50am	PREDICTABILITY OF BEDLOAD RATH COMPETENCE CURVES FROM BED A WIDTH AND BASIN AREA: Kristin Bunte,	VG AND FLOW RMORING, STREAM Steven R. Abt, Kurt W.			
11:10am	RADIONUCLIDE AND RARE EARTH E	<i>LEMENT TRACERS OF OT SCALE:</i>			
11:30am	A.P. Stubblefield, C. Fondran, M.E. Ketterer, G.M DREDGED MATERIAL MANAGEMENT CONTEXT: SEEKING INTEGRATED SC Barry Holiday, Elizabeth Kim and Molly Madde	A.P. Stubblefield, C. Fondran, M.E. Ketterer, G. Matisoff, P.J. Whiting DREDGED MATERIAL MANAGEMENT IN A WATERSHED CONTEXT: SEEKING INTEGRATED SOLUTIONS: Craig Vogt, Barry Holiday, Elizabeth Kim and Molly Madden			
10:30am	8thFISC TUESDAY 4/04/06				
4B	GEOMORPHOLOGY-IV	SILVER BARON E			
Chair: Co-Chair	Dennis Richards Lisa Fotherby				
10:30am	MORPHOLOGIC EVOLUTION IN THE L WATER MODELING INTERFACE: Jonat	<i>ISGS SURFACE</i> han Nelson, Richard			
10:50am	McDonald, and Paul Kinzel CHANNEL MIGRATION MODEL FOR N Timothy   Randle	IEANDERING RIVERS:			
11:10am	ENVIRONMENTALLY SENSITIVE GRA Frank Reckendorf	VEL BAR SCALPINGN:			
11:30am	COMPUTATIONAL MODEL FOR THE DEVELOPMENT OF SEDIMENT PLUGS IN ALLUVIAL RIVERS: Craig B. Boroughs, Ph.D, P.E.; Steven R. Abt, Ph.D., P.E.; Drew Baird, Ph.D., P.E.				
10:30am	8thFISC TUESDAY 4/04/06				
4C	TURBIDITY / SEDIMENT SOURCES-I	SILVER BARON A			
Chair: Co-Chair	Allen Gellis John Gray				
10:30am	OVERVIEW OF SELECTED SURROGA FOR CONTINUOUS SUSPENDED-SED	TE TECHNOLOGIES IMENT MONITORING:			
10:50am	John R. Gray and Jeffrey W. Gartner TURBIDITY SENSORS TRACK SEDIML CONCENTRATIONS IN RUNOFF FROM	ENT 1 AGRICULTURAL			
11:10am	FIELDS: S. M. Dabney, M. A. Locke, R. W. S A NEW SENSOR FOR TURBIDITY ANL ANALYSES IN NATI IRAL WATEDS 154	teinriede D SEDIMENT Jart Garner			
11:30am	IMPACT OF THE ROSEWOOD CREEK PROJECT ON SUSPENDED SEDIMEN TAHOE: PRE-MONITORING AND YEAR	RESTORATION TLOADING TO LAKE T: Rick Susfalk			

1:30pm 3rdFIHMC TUESDAY 4/04/06					
5D	WATERSHED AND RIVER SYSTEM MODELING PROGRAM-II	SILVER BARON D			
Chair: Co-Chair	Donald Frevert Mark Mastin				
1:30pm	COMPARISON OF SIMULATED RUNOF RIVER BASIN, WASHINGTON, FOR PRI CLIMATE-CHANGE CONDITIONS: Mark	F IN THE YAKIMA ESENT AND GLOBAL Mastin and Warren Sharp			
1:50pm	UPPER RIO GRANDE WATER OPERAT EIS: April Sanders, Valda Terauds, and Nabil S	<i>IONS REVIEW AND</i> Shafike			
2:10pm	ADVANCED DECISION SUPPORT MOD AND THE ET TOOLBOX: Steven Bowser	ELING WITH URGWOM			
2:30pm	SHORT-TERM REAL TIME FORECAST COLORADO RIVER TRIBUTARY BASIN	MODEL IN THE UPPER S: Shane Coors			
1:30pm	3rdFIHMC TUESDAY 4/04/0	6			
5E	MODELING SYSTEMS-I	SILVER BARON 1-3			
Chair: Co-Chair	David Goodrich Olaf David				
1:30pm	OBJECT MODELING SYSTEM – A MOD Olaf David and Lai Abuja	ELING PLATFORM:			
1:50pm	AN COMMON PROGRAMMING FRAME DISTRIBUTED HYDROLOGIC MODELIN OVERVIEW OF THE ARCHITECTURE: 7 Fekadu Moreda, , and Michael Smith	WORK FOR IG RESEARCH: AN Ihengtao Cui, Victor Koren,			
2:10pm	U.S. ARMY CORPS OF ENGINEERS UT MANAGEMENT OF HYDROLOGIC MOD Robert A. Bank	ILIZATION AND IELS: James D. Barton and			
2:30pm	UNIFYING HYDROINFORMATIC TECHA ARMY CORPS OF ENGINEERS: Robert M Richards, and Steven L. Ashby	IOLOGIES FOR THE US 1. Wallace, David R.			
1:30pm	3rdFIHMC TUESDAY 4/04/0	6			
5F	RIVER ENVIRONMENT AND AQUATIC ECOSYSTEMS-III	SILVER BARON 4-6			
Chair: Co-Chair	Stewart Rounds Eddy Langendoen				
1:30pm	INTERDISCIPLINARY MODELING FOR ECOSYSTEMS CURRICULUM DEVELO	AQUATIC PMENT WORKSHOP:			
1:50pm	Laurel Saito and Heather Segale A COMPREHENSIVE STREAM-RIPARIA TO STUDY THE IMPACT OF RIPARIAN CHANNEL AND EDGE-OF-FIELD PROC OF STREAMBANK HYDROLOGY: Eddy.	IN CORRIDOR MODEL BUFFERS ON ESSES: SIMULATION J. Langendoen, Andrew			
2:10pm	Simon, Natasha Pollen, Randall G. Williams, ar ANALYSIS OF AQUATIC HABITAT SUT DEPTH-AVERAGED 2-D MODEL: Weimir V Wage and E. Durales Shidds, In-	nd R. Richard Lowrance T <b>ABILITY USING A</b> ng Wu, Zhiguo He, Sam S.			
2:30pm	CREATION OF SHALLOW WATER HAB RIVER RECOVERY: Daniel Pridal	NTAT FOR MISSOURI			

3:00pm BREAK Grande Expo B

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## **TUESDAY – AFTERNOON**



10:30am	3rdFIHMC TUESDAY 4/04/	06		
4D	WATERSHED AND	SILVER		
Ψ	RIVER SYSTEM	BARON D		
	MODELING PROGRAM-I			
Chair:	Merlynn Bender			
CO-Chail				
10:30am	OVERVIEW OF THE WATERSHED AN MANAGEMENT PROGRAM: Donald Fre	ID RIVER SYSTEMS		
10:50am	DEVELOPMENTS IN RIVERWARE FO	DR WARSMP		
11:10am	THE MODULAR MODELING SYSTEM	(MMS): A TOOLBOX		
	FOR WATER- AND ENVIRONMENTAL MANAGEMENT: Steve Markstrom. George	-RESOURCES		
11.00	Viger			
11:30am	USE: Andrew Gilmore	VELOPMENTS AND		
10:30am	3rdFIHMC TUESDAY 4/04/	06		
4E	WATERSHED	SILVER		
Choir	MODELING-IV	BARON 1-3		
Co-Chair	William Merkel			
10:30am	DESIGN RAINFALL DISTRIBUTIONS	BASED ON NOAA 14		
	VOLUMES 1 AND 2 DATA: William Merk Ouan D. Ouan	el, Helen Fox Moody, and		
10:50am	FIXED AND MIXED-EFFECTS MODEL	S FOR MULTI-		
11:10am	COMPREHENSIVE WATERSHED ASS	WIS SESSMENT IN AN		
11.20am	URBANIZING AREA—A STUDY DESI MODELING FOR COMBINED SEWER	GN: David L. Rus STORAGE		
11.30411	RESERVOIRS AND TUNNELS IN CHICAGO METROPOLITAN			
	AREA: David Kiel			
10:30am	3rdFIHMC TUESDAY 4/04/	06		
15	RIVER ENVIRONMENT	SII VER		
41	AND AQUATIC	BARON 4-6		
	ECOSYSTEMS-II			
Chair:	Laurel Saito			
Co-Chair	Richard McDonald			
10:30am	ALTERED DYNAMICS OF KOOTENAI STURGEON SPAWNING HABITAT AN	RIVER WHITE		
	Gary Barton, Richard McDonald, Jonathon Ne	elson, Charles Berenbrock,		
10:50am	Mary Donato, Peter VanMetre, and Barabra M MODELING HYDRAULIC AND SEDIM	lahler ENT TRANSPORT		
10.000111	PROCESSES IN WHITE STURGEON S	SPAWNING HABITAT ON		
	Jonathan Nelson, and Vaughn Paragamian	ru wcDonalu, Gary Barton,		
11:10am	TWO-DIMENSIONAL MODELING TO L	EVALUATE SHALLOW		

11:30am HYDROECOLOGICAL MODELING OF THE LOWER MISSOURI RIVER: Harold E. Johnson III, Robert B. Jacobson, and Aaron J. Delonay

> Lunch on your own Noon

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April, 2 Time	2006 2n Sun	d Iday	3rd Monday	4th Tuesday	5th Wednesday	6th Thursday
am	Exhibit Hall open 5:30pm to 7:30pm (Grande Expo B)		Exhibit Hall opens 8:30am <i>(Grande Expo B)</i>	Exhibit Hall opens 10:00am <i>(Grande Expo B</i> )		
7:15			Speakers Breakfast, <i>Silver Baron A (8:00am)</i>	Speakers Breakfast, <i>Grande Expo C</i>	Speakers Breakfast, <i>Grande Expo C</i>	Speakers Breakfast, <i>Gold/Silver</i>
8:30	SHORT COURSES	FIELD TRIPS	Preconference Break,			
9:00	Design (8am- 5pm, Silver	Lower Truckee (9am-4pm)	Gianue expo B, exinipit Hali	Technical Session 3 8thFISC: A-D; 3rdFIMC: E-F	Technical Session 7 8thFISC: A-D; 3rdFIMC: E-F	Technical Session 10 8thFISC: A-D; 3rdFIMC: E-F
9:30	MIKE SHE/MIKE 11, 9am-5pm,	Upper Truckee (9am-4pm) Carson River	Opening Session, Grande Expo C			
10:00	Silver Baron 1-2) GSTAR (9am-5pm, Silver Baron 3)	(10am-4pm) Waterfall Burn Area (10am 4pm)		Break, <i>Grande Expo B,</i> Exhibit Hall	Break, <i>Grande Expo A</i>	Break, Pre-Function Salon
10:30	WMS (9am-5pm, Silver Baron 5-6)	NOTE: Field trips convene at Pre-		Tochnical Sossion 4	Tochnical Sossion 8	Technical Session 11 8thFISC: A-D; 3rdFIMC: E-F
11:00	MODHMS (9am- 5pm, Silver Baron C)	Function Salon 15 minutes prior to departure		8thFISC: A-D; 3rdFIMC: E-F	8thFISC: A-D; 3rdFIMC: E-F	S.CEXCEL-LENT (10:30am-5:00pm, Silver) S.CStream Analysis & Design (10:30am- 5:30pm, Silver Baron B) S.CArc Hydro (10:30am-5:00pm, Gold)

JOINT FEDERAL INTERAGENCY CONFERENCE SCHEDULE						
Afternoon 2nd Time Sunday		d day	3rd Monday	4th Tuesday	5th Wednesday	6th Thursday
noon	Lunch on your own	Lunch (if pre-reg.)	Lunch on your own	Lunch on your own	Lunch on your own	Lunch on your own
1:00						S.C-Collection of Fluvial Sediment Data (1pm- 5:pm, Silver Baron 1-2)
1:30			Technical Session 1	Technical Session 5	Technical Session 9	S.C-HEC-HMS (1pm-5pm, Silver Baron 5-6)
2:30			8thFISC: A-D; 3rdFIMC: E-F	8thFISC: A-D; 3rdFIMC: E-F	8thFISC: A-D; 3rdFIMC: E-F	
3:00	SHORT COURSES (Cont'd)	FIELD TRIPS (Cont'd)	Break, <i>Grande Expo B, Exhibit Hall</i>	Break, <i>Grande Expo B,</i> <i>Exhibit Hall</i>		
3:30			Technical Session 2	Technical Session 6 8thFISC: A-D; 3rdFIMC: E-F		
4:30		8thFISC: A-D; 3rdFIMC: E-F	(Exhibit Hall closes, 3:30pm)	Demos and Posters-II,		
5:00			Exhibitors Reception,		Grande Expo B (ends 9pm) Dinner, served 6:00 to	(All Conference functions end
5:30	5:30 Opening Reception, Grande Expo B (5:30-7:30pm)		Poster Session-1 Grande Expo B (5:15pm-6:45pm)		and C	5:00pm)