

## **S-6 Newsletter**

### **6 November 2006**

This is a annual S-6 newsletter for 2006. It contains information regarding S-6 symposia, S-6 Awards for 2006, and S-6 Committee information.

#### **2006 ANNUAL MEETINGS**

One hundred and seventy six papers (176) were submitted to Division S06 for the 2006 meetings in Indianapolis. Of those 176 papers, 108 were poster papers and 68 were oral papers, which included 27 presentations by invited speakers (19 non-members).

#### **S-6 SYMPOSIA OF INTEREST**

This year, each division was limited to two (2) symposia. In addition, S-6 takes a lead role for SSSA in developing the SSSA-SWCS Joint Symposium, which is a society level symposium. We also sponsor the Howard M. Taylor Lectureship.

To view the full technical program, please visit:

<http://crops.confex.com/crops/2006am/techprogram/index.html>

#### **Symposium 1: "Management and Use of Waters of Altered or Impaired Quality"**

Growing demands for use of existing water resources has resulted in need to address issues of management and use of waters of altered or impaired quality – whether to satisfy water use demands which exceed currently available supplies, to minimize undesirable impacts of reuse of impaired water, to mitigate such impacts as may occur or be anticipated, or to extend existing water resources. The intent of this symposium and associated poster session is to bring together researchers addressing issues of characterization, assessment, practical management, and challenges of use and re-use of waters of impaired quality. This combined invited speaker and volunteer poster symposium will address a multitude of aspects of water reuse and impaired water use and management.

The symposia will consist of presentations covering an overview of political, social, legal and regulatory constraints to use of impaired water, followed by presentations focused on specific venues which result in impaired water and subsequent management uses, opportunities, and challenges. Invited speakers will define how and what impairs water, the role of agriculture in impairment and mitigation, and what constitutes impairment. Speakers will present case studies, works in progress, and the state of knowledge and understanding of management and use of impaired water. Topics to be addressed include municipal water reuse, water management associated with energy extraction and production, mineral extraction and water management, irrigation drainage water re-use, bacterial contamination and impairment, and emerging issues related to impaired water use and management. A closing speaker will provide a summary, after which time will be allowed for questions, discussion, and audience interaction with speakers. A facilitated poster session will follow the oral presentations.

Time: 9:15 AM – 3:30 PM, Monday, November 13<sup>th</sup> ; Poster session 4:00-6:00 PM, Monday November 13<sup>th</sup>

Place: Indiana Conv. Center, Room 107, First Floor

Organizers: James Bauder and Michael Singer

Details: <http://crops.confex.com/crops/2006am/techprogram/S2821.HTM>

## **Symposium 2: "Sediment Pollution from River Bank Erosion: Characterization and Budget"**

Sediment pollution is one of the major causes of surface water impairment. In some rivers, as much as 70% of the sediments may be from riverbank sloughing/erosion. Because the source of these sediments is right next to a river, almost all of these sediments contribute directly to river water pollution. Comparatively, only a fraction of the upland sediment may actually reach surface waters. This source of sediment pollution has been relatively unknown to most of the public and as a result, has received limited attention from scientists and policy makers. Our next challenge in soil erosion/water quality research is to quantify the extent of sediment pollution from riverbanks, identify the underlying mechanisms of mass wasting and bank scouring, and develop possible remediation strategies to control bank erosion pollution. This symposium will bring together experts conducting research in this area and summarize the current knowledge and potential opportunities for future research on sediment pollution from bank erosion. The invitees include Soil Scientists, Geomorphologists, Geographers, Remote Sensing Experts, Water Quality Experts, Hydrologists, and Engineers

Time: 7:55 AM – 4:00 PM, Wednesday, November 15<sup>th</sup> and 7:55-10:10 AM, Thursday November 16<sup>th</sup>; Poster Session 4:00-6:00 PM, Tuesday November 14<sup>th</sup>

Place: Indiana Conv. Center, Room 106, First Floor

Organizers: Satish Gupta and Jerry Ritchie

Details: <http://crops.confex.com/crops/2006am/techprogram/S2500.HTM> and <http://crops.confex.com/crops/2006am/techprogram/S2864.HTM>

### **Howard Taylor Lectureship**

This year's Howard M. Taylor Lecture on Root-Soil Relationships will be given by Dr. Meine van Noordwijk, International Centre for Research in Agroforestry (ICRAF), Southeast Asia Regional Coordinator and senior soil ecologist based in Bogor, Indonesia. Dr. van Noordwijk has been responsible for shaping the content and assuring the quality, relevance, integration, planning, implementation and effective delivery of ICRAF's activities in the region. Before joining ICRAF he was a senior research officer in the Root Ecology Section at the DLO Institute for Soil Fertility Research in Haren, the Netherlands, concentrating on the relationships between soil fertility, nutrient use efficiency and root development of crops and trees in various temperate and tropical agroecosystems. He also worked for 2 years as a lecturer in botany and ecology at the University of Juba (Sudan). Born and educated in the Netherlands. The title and abstract of his presentation follow:

Root Distribution Effects on Tree and Crop Water Uptake in Agroforestry: Competition and Facilitation.

Water uptake in crop monocultures under the influence of fine root dynamics and plant physiological characteristics is still largely understood as in the active research period of HM Taylor. Taking these principles to mixed cropping systems and agroforestry in a range of climates, however, still yields surprises as the combination of competition and facilitation remains difficult to predict. The (re)inclusion of trees in agricultural production landscapes affects processes from root to watershed scale, with interactions that are hard to unravel experimentally at the relevant spatial and temporal scales. Simultaneous hydraulic redistribution via tree and crop root systems and the local and functional equilibrium responses in fine root dynamics of all plants are essentially understood at process level, but only recently represented in dynamic simulation models. The lecture will provide examples of applications of the WaNuLCAS 3.1 model to early stages of introduction of timber trees into cassava systems on poor soils in Lampung (Indonesia), parkland systems in the dry savannah zone of Burkina

Faso, trees of different phenology in Kenya and emerging sylvoarable systems in southern France.

Time: 8:25-9:45 AM, Tuesday November 14<sup>th</sup>

Place: Indiana Conv. Center, Room 107, First Floor

Convenor: Bobbie McMichael

2006 Lectureship Committee: Bobbie McMichael, Diane Stott, Tom Kaspar, Jorge Delgado, Ken Van Rees, Kelly Morgan, Andres Quincke.

Details: <http://crops.confex.com/crops/2006am/techprogram/P23492.HTM>

### **SSSA – SWCS Joint Symposium**

Workshop: Advances of Nitrogen Management Practices for Water Quality

Time: 12:30-5:00 PM, Sunday November 12<sup>th</sup>

Place: Marriott, Marriott Ballroom 9-10, Second Floor

Organizing Committee: Warren Busscher, Jorge Delgado, Mike Lindstrom, Jeff Vonk

Details: <http://crops.confex.com/crops/2006am/techprogram/S3022.HTM>

## **DIVISION MEETINGS**

### **SSSA SOCIETY WIDE BUSINESS MEETING**

7:45-9:00 AM Monday, November 13<sup>th</sup>

Indiana Conv. Center, Sagamore 5, Second Floor

Please attend this session. It will cover business that is common with all divisions such as business before the SSSA Board of Representatives. This information will not be repeated during the individual division business meetings.

### **S-6 DIVISION BUSINESS MEETING**

10:00 AM-11:30 AM, Tuesday, November 14<sup>th</sup>, following the Howard M. Taylor Lectureship

Place: Indiana Conv. Center, Room 107, First Floor (See agenda on last page)

### **S06 Listserv**

To unsubscribe from s06 Listserv:

Send an email to [s06-request@acs-net.soils.org](mailto:s06-request@acs-net.soils.org) and put "unsubscribe" (just the word without quotes) in the Body of the message. Please do not type anything else in the Subject line or Body of the message. Also, be sure that your default signature is not included in the message.

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Send an email to [s06-request@acs-net.soils.org](mailto:s06-request@acs-net.soils.org) and put "subscribe" (just the word without quotes) in the body of the message. Please do not type anything else in the Subject line or Body of the message. Also, be sure that your default signature is not included in the message.

## **AWARDS**

### **2006 S-6 YOUNG SCHOLAR AWARD**

2006 Recipient: David Robinson

The Young Scholar Award recognizes scientists who have made an outstanding contribution in Soil and Water Management and Conservation within seven years of completing their Ph.D. Candidates for this award are nominated by their departments.

David obtained his BSc in Soils and the Environment with Sedimentary Geology from Reading University, UK. He obtained his Ph.D. from the University of Ulster/Institute of Hydrology in 1998 focusing on water content measurement and soil processes under irrigated crops. He worked for 2 year as postdoc in Israel at the Volcani Center, improving water content and salinity determination in soils. And then moved to the USDA Salinity lab focusing on water content determination and geophysical mapping of soil properties. Currently he is a staff scientist in the Department of Geophysics, Stanford University and is acting as operations director for the Consortium of Universities for the Advancement of Hydrological Sciences Inc. The focus of this work is to coordinate the development of a community hydrologic measurement facility. He also holds an appointment as Assistant Professor in the Department of Plants, Soils, and Biometerology at Utah State University. His research has been focused on developing and applying new methods that can be used to provide better characterization of soil properties, especially water content and soil structure. He has worked on water content determination in soils using TDR, TDT, capacitance probes, and impedance probes. Other research areas include field hydrology, mapping soils using EM methods, structural characterization and electrical properties of soils, and avalanching of granular materials. He received the Vadose zone editors citation for excellence in 2004 and the S1 soil physics early career award in 2005. David has authored/co authored 34 peer reviewed papers and most recently contributed to 3 white papers providing a vision for hydrological measurement in the US.

2006 Young Scholar Award Committee: Diane Stott (chair), Jorge Delgado, Gary Peterson

### **S-6 GRADUATE STUDENT AWARD**

2006 Recipient: Holly Dolliver

The Graduate Student Award recognizes graduate students for outstanding contributions to Soil and Water Management and Conservation through their dissertation research. Candidates for this award are nominated by their major professors or department awards committee.

Holly obtained her B.S. in Soil Science from North Dakota State University in 2001. She obtained an M.S. in Water Resources Science from the University of Minnesota in 2003. Holly is pursuing her Ph.D. in Water Resources Science under the direction of Dr. Satish Gupta in the Department of Soil, Water, and Climate at the University of Minnesota. She is currently finishing her dissertation research on the fate and transport of antibiotics from manure-amended soils.

2006 Graduate Student Award Committee: Ken Potter (chair), Clark Gantzer, Tom Schumacher.

### **2006 UNDERGRADUATE SPEECH CONTEST**

S-6 will sponsor an undergraduate speech contest at the annual meetings in Indianapolis, IN. The S-6 contest will be done in conjunction with the ASA National Student Speech Contest and will serve to stimulate student interest in Division S-6 and to recognize the speech that best exemplifies the ideals of our division. The current chair of the committee is Neil Hansen, [neil.hansen@colostate.edu](mailto:neil.hansen@colostate.edu). Neil will be rotating off this committee after the 2007 meetings

and is looking for someone to participate as a judge in 2007 and learn the duties as chair-elect.

### **2006 BEST PAPER AWARD**

The best paper award will not be awarded in 2006. At last years meeting it was decided to let the technical editor and associate editors for S-6 make the selection from the papers they handled. This proved to be unworkable and technical editor did not receive enough input from the associate editors to make this possible. Discussion of this award will be part of the S-6 division Business Meeting on Tuesday, November 14<sup>th</sup>.

### **DIVISION S-6 CONTACT INFORMATION**

Chair (2006), Tom Kaspar, [kaspar@nstl.gov](mailto:kaspar@nstl.gov)  
Chair-Elect (Chair, 2007), Ted Zobeck [tzobeck@lbk.ars.usda.gov](mailto:tzobeck@lbk.ars.usda.gov)  
Incoming Chair-Elect (Chair, 2008), Brian Wienhold [bwienhold1@unl.edu](mailto:bwienhold1@unl.edu)  
Past Chair (Chair, 2005), Diane Stott [destott@purdue.edu](mailto:destott@purdue.edu)

Board Representative (2006-2008), Diane Stott [destott@purdue.edu](mailto:destott@purdue.edu)

SSSA Journal S-6 Technical Editor, Seth Dabney [sdabney@ars.usda.gov](mailto:sdabney@ars.usda.gov)  
SSSA Rapid Response Contact, Div S-06 (2007), Diane Stott [destott@purdue.edu](mailto:destott@purdue.edu)

### **S-6 COMMITTEES**

#### **2007 S-6 PROGRAM (INDIANAPOLIS, IN, NOV. 12-16)**

SSSA Division S-6 2007 Chair, Ted Zobeck,

Send Ted ideas for 2007 symposia and special sessions. Better yet, volunteer to organize a symposium for the next meeting. It's a great way to become involved. Topics will be discussed during the S-6 Division Business Meeting. Currently, we are allowed two symposia at the annual meeting. We can also organize non-funded oral or poster sessions around specific themes.

#### **2007 NOMINATING COMMITTEE**

Chair, 2007 (2009) Tom Kaspar, [kaspar@nstl.gov](mailto:kaspar@nstl.gov)  
Member (2008) Diane Stott, [destott@purdue.edu](mailto:destott@purdue.edu)  
Member (2007) Jorge Delgado [jorge.delgado@ars.usda.gov](mailto:jorge.delgado@ars.usda.gov)  
On Nov. 9, 2006 at 5:00 PM CST we will close nominations by email for Chair-Elect. Nominations for 2007 chair-elect can still be made at the business meeting on Tuesday Nov. 14 at 10:00 AM in the Indiana Conv. Center, Room 107, First Floor. Make sure that the nominee has agreed to serve. Two nominations are necessary for a candidate to be considered. Run-off elections will be held shortly after the annual meetings to narrow the field down to two candidates. So far we have three candidates: Louis Baumhardt, Neil Hansen, and Don Tanaka.

#### **SSSA – SWCS JOINT SYMPOSIUM**

Chair, Warren Busscher, [busscher@florence.ars.usda.gov](mailto:busscher@florence.ars.usda.gov)  
Member, Jorge Delgado, [jorge.delgado@ars.usda.gov](mailto:jorge.delgado@ars.usda.gov)  
Member, Mike Lindstrom, [lindstrom@morris.ars.usda.gov](mailto:lindstrom@morris.ars.usda.gov)  
Member, Jeff Vonk, [jeff.vonk@dnr.state.ia.us](mailto:jeff.vonk@dnr.state.ia.us)

#### **2007 HOWARD M. TAYLOR LECTURESHIP COMMITTEE**

The membership of this committee is appointed in part by the SSSA President-Elect, but contact any of the following for information, interest in serving on the committee in the future, or for suggestions for next year's selection for lecturer.

2007 Chair, Tom Kaspar, [kaspar@nstl.gov](mailto:kaspar@nstl.gov)  
2007 Chair-Elect, Ted Zobeck [tzobeck@lbk.ars.usda.gov](mailto:tzobeck@lbk.ars.usda.gov)  
2007 Member, Diane Stott, [destott@purdue.edu](mailto:destott@purdue.edu)  
2007 Member, Bobbie McMichael, [bmc michael@lbk.ars.usda.gov](mailto:bmc michael@lbk.ars.usda.gov)  
2007 Member, Ken Van Rees, [vanrees@sask.usask.ca](mailto:vanrees@sask.usask.ca)  
2007 Member, Kelly Morgan, [ktm@ifas.ufl.edu](mailto:ktm@ifas.ufl.edu)  
2007 Member, Andres Quincke, [aquincke@le.inia.org.uy](mailto:aquincke@le.inia.org.uy)

### **2007 YOUNG SCHOLAR AWARD COMMITTEE**

Chair, Tom Kaspar, [kaspar@nstl.gov](mailto:kaspar@nstl.gov)  
Member, Diane Stott, [destott@purdue.edu](mailto:destott@purdue.edu)  
Member, Jorge Delgado, [jorge.delgado@ars.usda.gov](mailto:jorge.delgado@ars.usda.gov)

### **2007 GRADUATE STUDENT AWARD**

Thanks to Ken Potter, who is rotating off this committee. Remember to nominate deserving graduate students for this award.

Chair, , Clark Gantzer, [GantzerC@missouri.edu](mailto:GantzerC@missouri.edu)  
Member, Zhi (Luke) Wang, [zwang@csufresno.edu](mailto:zwang@csufresno.edu)  
Member, Tom Schumacher, [Thomas\\_Schumacher@sdstate.edu](mailto:Thomas_Schumacher@sdstate.edu)

## **BUSINESS MEETING AGENDA**

Awards  
Board of Directors Report  
SWCS Liaison Report  
Division S06 Technical Editor's Comments  
Nominations for Chair-Elect 2008  
2007 Symposia Discussion  
Best Paper Award Discussion  
General Business, Announcements, and Discussion  
Introduction of the New Chair and Chair-Elect  
Adjourn