

S-1 News Vol. 8, No. 5
October 22, 2002

Preface:

This is the fifth S-1 Newsletter for the year Nov 2001-Oct 2002. The newsletter contains four sections: 2002 ASA-CSSA-SSSA Annual Meeting, S-1 Member News and Announcements, Upcoming Meetings of Interest, and Job Announcements. To have news and announcements included in future S-1 Newsletters, please send the text (either embedded in an e-mail message or as an attachment) to kpennell@ce.gatech.edu. Newsletters (current and past) and other S-1 information are posted on the S-1 Web Page: <http://environmental.gatech.edu/S1/s1home.htm>

1) ASA-CSSA-SSSA 2002 ANNUAL MEETING (November 10-14, 2002 Indianapolis, IN)

A) General Meeting Information

Meeting Theme: Uniting Sciences: Solutions for the Global Community

General Meeting Link: <http://www.asa-cssa-sssa.org/anmeet/>

Meeting Program: http://www.asa-cssa-sssa.org/anmeet/prog_bk.html

B) S-1 Symposia/Meetings Schedule

Sunday, November 10

4:30 - 7:00 pm *Flow and Transport Concepts in Soil Physics*. Presentation and Discussion by Art Corey, Professor Emeritus, Colorado State University. Hyatt Regency Indianapolis, Mt. Rushmore Room, 3rd floor.

Monday, November 11

07:55 - 10:30 am Oral Session: *Pore Scale Phenomena*. Presiding: Jan Hendrickx (9 papers, S-1). Rooms 208-209, 2nd Floor, Convention Center.

8:25 - 12:00 pm Oral Symposium: *Physical Measurements in the Soil-Plant-Atmosphere System: Advances in Measurements At and Above the Ground Surface - A Tribute to George Thurtell I*. Presiding: Gaylon Campbell (6 papers; A-3, co-sponsored by S-1), Room 106, 1st Floor, Convention Center.

7:55 - 11:30 am Oral Symposium: *Soil Carbon Accounting Systems I. Accounting and Monitoring*. Presiding: Coeli Hoover (12 papers, S-5, co-sponsored by all S divisions), Sagamore Ballroom 6, 2nd Floor, Convention Center

10:00 - 12:00 pm Poster Session: *Flow and Transport* (22 posters; S-1, co-sponsored by S-2 and S-7). Hall CDE, 1st Floor, Convention Center.

1:10 - 5:00 pm Oral Symposium: *Physical Measurements in the Soil-Plant-Atmosphere System: Advances in Measurements At and Below the Ground Surface - A Tribute to Clarke Topp I*. Presiding: Ty Ferré (12 papers; S-1, co-sponsored by A-3), Rooms 208-209, 2nd Floor, Convention Center.

1:10 - 5:00 pm Oral Symposium: *Soil Carbon Accounting Systems II. Legislative and Policy Issues*. Presiding: John Kimble (10 papers, S-5, co-sponsored by all S divisions), Sagamore Ballroom 6, 2nd Floor, Convention Center

5:00 pm - ? Reception in honor of Clarke Topp (S-1) and George Thurtell (A-3). Co-sponsored by S-1, A-3, and Soilmoisture Equipment Corp., Rooms 208-209, 2nd Floor, Convention Center.

Tuesday, November 12

- 08:25 - 10:45 am Oral Session: *Flow and Transport I*. Presiding officer Daniel Gimenez (8 papers; S-1, co-sponsored by S-2 and S-6). Room 209, 2nd Floor, Convention Center.
- 8:55 – 10:45 am Oral Session: Chemical Properties and Transport. Presiding: Julia Nelson (6 papers, S-2, co-sponsored by S-1 and S-4), Room 208, 2nd Floor, Convention Center.
- 7:55 – 11:15 am Oral Symposium: *Soil Carbon Accounting Systems III. Measurement and Methods Estimation*. Presiding: Goro Uehara (11 papers, S-5, co-sponsored by all S divisions), Sagamore Ballroom 6, 2nd Floor, Convention Center.
- 11:30 - 1:15 pm **SSSA Luncheon**, Grand Ballroom V, 2nd Floor, Westin Indianapolis Hotel.
- 1:25 - 3:15 pm Oral Session: *Flow and Transport II*. Presiding officer: Frank Casey (6 papers; S-1, co-sponsored by S-2 and S-6). Room 209, 2nd Floor, Convention Center.
- 1:25 – 4:15 pm Oral Symposium: *Soil Carbon Accounting Systems IV. Factors Affecting Soil Carbon Pools*. Presiding: Mark Johnson (9 papers, S-5, co-sponsored by all S divisions), Sagamore Ballroom 6, 2nd Floor, Convention Center.
- 4:00 - 6:00 pm Poster Session: *Physical Measurements in the Soil-Plant-Atmosphere System: Advances in Measurements At and Below the Ground Surface - A Tribute to Clarke Topp II*. (10 posters; S-1, co-sponsored by A-3). Hall CDE, 1st Floor, Convention Center.
- 4:00 - 6:00 pm Poster Session: *Soil Physical Properties*. (9 posters; S-1, co-sponsored by S-5). Hall CDE, 1st Floor, Convention Center.

Wednesday, November 13

- 8:10 - 10:15 am Oral Session: *Soil Properties*. Presiding: Jon Wraith (7 papers; S-1, co-sponsored by S-5 and S-6). Sagamore Ballroom 7, 2nd Floor, Convention Center.
- 8:25 – 10:15 am Oral Symposium: *Physical Measurements in the Soil-Plant-Atmosphere System: Advances in Measurements At and Above the Ground Surface - A Tribute to George Thurtell II*. Presiding: Keith Bristow (6 papers; A-3, co-sponsored by S-1), Room 102, 1st Floor, Convention Center.
- 8:25 – 11:15 am Oral Symposium: *Soil Carbon Accounting Systems V. Factors Affecting Changes in C Storage*. Presiding: Mac Post (6 papers, S-5, co-sponsored by all S divisions), Sagamore Ballroom 6, 2nd Floor, Convention Center.
- 10:00 - 12:00 pm Poster Session: *Soil Hydraulic Properties* (14 posters; S-1, co-sponsored by S-6). Hall CDE, 1st Floor, Convention Center.
- 9:00 - 11:00 am Poster Session: *Contaminant Fates in Soils I: General* (15 posters; S-11, co-sponsored by S-1, S-2 and S-6). Hall CDE, 1st Floor, Convention Center.
- 1:55 - 4:30 pm Oral Symposium: *Physical Measurements in the Soil-Plant-Atmosphere System: Advances in Measurements At and Below the Ground Surface - A Tribute to Clarke Topp III*. Presiding: Gerard Kluitenberg (9 papers; S-1, co-sponsored by A-3). Sagamore Ballroom 7, 2nd Floor, Convention Center.

- 4:45 - 6:00 pm **S-1 Business Meeting.** Presiding: Jacob Dane. Sagamore Ballroom 7, 2nd Floor, Convention Center. (for Business Meeting Agenda see Section 1C, for 2001 Business Meeting Minutes see Appendix C)
- 2:00 - 4:00 pm Poster Session: *Contaminant Fates in Soils II: Pesticides* (15 posters; S-11, co-sponsored by S-1, S-2 and S-6). Hall CDE, 1st Floor, Convention Center.
- 4:00 – 6:00 pm Poster Session: *Soil Carbon Accounting Systems VI.* (24 posters, S-5, co-sponsored by all S divisions) Hall CDE, 1st Floor, Convention Center.

Thursday, November 14

- 8:40 - 11:45 am Oral session: *Modeling Flow and Transport.* Presiding: Jirka Simunek (9 papers; S-1, co-sponsored by S-6). Room 209, 2nd Floor, Convention Center.
- 8:25 – 10:30 am Oral Symposium: *Soil Carbon Accounting Systems VII. Soil Carbon Pools and the Landscape.* Presiding: Keryn Paul (6 papers, S-5, co-sponsored by all S divisions), Room 203, 2nd Floor, Convention Center.

C) S-1 Business Meeting Agenda (Wednesday, November 12, Sagamore Ballroom 7)

Introduction (Chair, Jacob Dane)

- Division Officers
- Approval of 2001 S-1 minutes (See Appendix C)

Old Business

- ASA-SSSA Board Representative, David Nofziger
- SSSAJ, Technical Editor, David Radcliffe
- VZJ, Editor, Rien van Genuchten
- Methods of Soil Analysis, Part 4, Clarke Topp
- ASA Restructuring Proposal, Glenn Wilson
- IUSS, Keith Cassel
- Joint Meeting With Geological Soc. Amer.
- Early Career Award (update on procedures), Gerard Kluitenberg

New Business

- 2002 Program Report, Jacob Dane
- Chair elections, Jacob Dane
- Kirkham Conference (2004), Dani Or
- Miscellaneous

Awards/Announcements

- S-1 Early Career Award, Gerard Kluitenberg
- 2002 Honors and Awards

Changing of the Guard

Adjourn

2) S-1 MEMBER NEWS AND ANNOUNCEMENTS

A) New Textbook: “Soil Water Dynamics” by Art Warrick: Oxford University Press, 382 p. + index. Chapters: The Soil System, Soil Water Flow, Saturated Flow, One-dimensional Absorption, One-dimensional Infiltration and Vertical Flow, Multidimensional Water Flow in Variably-Saturated Soils, Solute and Contaminant Transport. It is proposed as an advanced text and reference on variably saturated flow and transport. Release Date: December 2002.

3) UPCOMING MEETINGS OF INTEREST (arranged by meeting date)

A) 1st International Symposium on Soil Water Measurement using Capacitance, Impedance and Time Domain Transmission (TDT), (November 6-8, 2002, Beltsville, MD)

The 1st International Symposium on Soil Water Measurement using Capacitance, Impedance and Time Domain Transmission (TDT) will be held at the USDA-ARS Beltsville Agricultural Research Center, in Beltsville, Maryland, November 6-8, 2002. Over 30 abstracts of paper, poster and multimedia presentations have been received so far, and we are still receiving. List of proposals, in chronological order, are shown at www.paltin.com (go to "Symposium" link). The two main topics of the symposium are: (1) State of the Art (Theory; New developments in sensors, software, monitoring and telemetry systems; Calibration methods; Global network for real-time soil water profile dynamics vs. remote sensing monitoring; Future directions), and (2) Application Case Studies (Research oriented studies; Practical applications in irrigation and drainage of agricultural and horticultural crops, sports fields, land reclamation, construction, waste disposal sites; Future directions). Full-length papers are due May 31, 2002. Transactions will be published before Symposium, and distributed in November 6, 2002, at the registration desk. For further information contact: Dr. Ioan C. Paltineanu at: icpaltin@msn.com

B) Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Prevention, Assessment, and Remediation Conference & Exposition (November 6-8, 2002, Atlanta, GA).

The American Petroleum Institute and National Ground Water Association call for abstracts in the areas of Site Characterization and Monitoring, Gasoline Oxygenates, Natural Attenuation Processes, Remediation Technologies, Cleanup Goals and Site Closures for the 2002 Petroleum Hydrocarbons Conference and Exposition to be held in Atlanta, GA. Abstract Deadline: April 26, 2002, Manuscript Deadline: August 23, 2002. Abstract submission materials can be downloaded at <http://www.ngwa.org/pdf/petcfp02.pdf>

C) American Geophysical Union Fall Meeting (December 6-10, 2002, San Francisco, CA)

The 2002 Fall Meeting of the American Geophysical Union will be held in San Francisco, CA, December 6-10, 2002. Electronic abstracts were due September 5, 2002. The deadline for preregistration and housing is November 5, 2002. More information is available: <http://www.agu.org/meetings/fm02/>

D) International Conference on Soil and Groundwater Contamination and Cleanup in Arid Countries (January 20-23, 2003, Muscat, Sultanate of Oman)

The conference will address a range of topics including management and decision making in conservation and remediation, soil and groundwater vulnerability assessment, salinization and sea water encroachment, leakage from lagoons and evaporation ponds, pore-scale processes in multi-phase systems, and remediation technologies. The first call for papers was February 2002. Paper submission deadline is August 15, 2002. Additional information is available at: <http://www.squ.edu.om/agr/>

E) 13th Annual West Coast Conference on Contaminated Soils, Sediments and Water (March 17-20, 2003, San Diego, CA)

This annual conference is intended to bring the environmental science community closer together by providing a forum to facilitate the exchange of information of technological advances, new scientific achievements, and the effectiveness of standing environmental regulation programs.

Abstracts were due July 15, 2002. More information is available at:

<http://www.aehs.com/conferences/westcoast/index.htm>

F) 225th American Chemical Society (ACS) National Meeting (March 23-27, 2003, New Orleans, LA)

Detailed meeting information is not available yet, but the main ACS meeting link is located at

<http://www.acs.org/portal/Chemistry>.

G) Joint Assembly of EGS-AGU-EUG (April 7-11, 2003, Nice, France)

This joint meeting replaces the AGU Spring Meeting in 2003. Scientists from all geophysical disciplines are invited to provide their suggestions for the scientific programmes by 30 September 2002. Deadline for financial support applications: December 1, 2002. Deadline for receipt of abstracts: January 15, 2003. Deadline for Pre-registration and housing: March 7, 2003. Additional information is available at: <http://www.copernicus.org/egsagueug/index.html>

H) International Conference on Mechanics of Physicochemical and Electromechanical Interactions in Porous Media (May 18-23, 2003, Kerkrade, The Netherlands)

The International Union of Theoretical and Applied Mechanics (IUTAM) and the Eindhoven University of Technology are organizing a "Symposium on the Mechanics of Physicochemical and Electromechanical Interactions in Porous Media", to be held 18-23 May 2003 at the Congress Centre Rolduc, Kerkrade, The Netherlands. Details can be found at www.iutam.net/symposia/porous. Participation will be restricted to invited scientists. Any soil physicist wishing to participate should contact Peter Raats at pac.raats@home.nl. Please include a brief abstract of your potential contribution.

I) International Conference on Water-Saving Agriculture and Sustainable Use of Water and Land Resources in Arid and Semiarid Areas (October 26-29, 2003, Yangling, China)

This international conference will address a number of themes including: Biological mechanisms of water-saving agriculture, Agronomic technology and plant improvement, Irrigation technology and water management, Sustainable use of water resources, Agricultural water and land environment. Interested participants should submit abstracts (approximately 300 words) for either platform or poster presentations by November 30, 2002 via e-mail to kang62@public.xa.sn. Further information can be obtained from the ICWSAWLR Secretariat, College of Water Resources and Architectural Engineering, Northwest Sci-Tech University of Agriculture and Forestry, Yangling, Shaanxi Province, China. tel: +86-29-709-2129, fax: +86-29-709-2335.

4) NEW JOB ANNOUNCEMENTS

A) Faculty Position, Assistant Professor, Environmental Engineering, Lehigh University, Bethlehem, PA (received 9/16/02)

The Department of Civil and Environmental engineering at Lehigh University seeks applicants for a tenure-track faculty position in environmental engineering. The position will be filled preferentially at the rank of Assistant Professor. The particular area of interest pertains to fate and transport of chemicals in the environment involving microbial and chemical processes for engineered and/or natural aquatic systems. Other closely related areas will also be considered for exceptional candidates. The candidate must possess an (1) earned doctorate in Civil and Environmental Engineering or a closely related field, (2) excellent potential in research and

scholarship, and (3) ability and commitment to teaching environmental engineering courses at both undergraduate and graduate levels. This position is part of the ongoing initiative at Lehigh University to strengthen interdisciplinary environmental engineering and science program encompassing the departments of civil and environmental engineering, earth and environmental science, chemistry, biological science and chemical engineering. The successful candidate is expected to develop an externally funded research program, and supervise MS and Ph.D. students. Applicants should send a detailed resume and the names and addresses of at least three references. Please see our department home page at: <http://www.lehigh.edu/~incee>. Women and members of the minority groups are encouraged to apply. Review of applications will begin December 1, 2002 and will continue until the position is filled. Submit application materials to: Chair, Environmental Engineering Search Committee, Lehigh University, Department of Civil and Environmental Engineering, 13 E. Packer Avenue, Bethlehem, PA 18015.

APPENDICES

A) S-1 Contacts

Chair (02): Jacob Dane: danejac@auburn.edu

Chair-Elect (03): Dani Or: dani@mendel.usu.edu

Past Chair (01): Magdi Selim: mseim@agctr.lsu.edu

ASA and SSSA Board Representative (00-02): Dave Nofziger: dln@mail.pss.okstate.edu

SSSA Journal Editorial Board Representative: Dave Mulla: dmulla@soils.umn.edu

SSSA Journal S-1 Technical Editor: Dave Radcliffe: dradclif@uga.cc.uga.edu

B) S-1 Working Groups and Committees

S-1 Program for 2002 ASA-SSSA Meetings (Indianapolis, IN, Nov 11-14, 2002): Jacob Dane

Kirkham Conference 2004 (Utah State): Wilford Gardner and Dani Or

S-1 Early Career Award: Jan Hopmans, Art Warrick, Gerard Kluitenberg and Magdi Selim

C) 2001 S-1 Business Meeting Minutes (Charlotte, NC)

Introduction:

The chair, Magdi Selim, called the S-1 business meeting to order. Approximately 100 members were present. Magdi first introduced his fellow officers, viz., Jan Hopmans, past chair, Jacob Dane, chair-elect, and David Nofziger, Board Representative. The new chair-elect is Dani Or. The minutes of the 2000 business meeting were adopted without changes.

Old Business:

David Nofziger, our ASA-SSSA Board Representative reported on the ASA and SSSA Board meetings. We were informed that the society is in need of new financial resources, such as increased dues, or should reduce its operating expenses. A membership drive is underway to obtain additional revenue. It was pointed out that we should do a better job of promoting membership among graduate students. The SSSA is especially hard hit because it needs \$50,000 now as part of organizing the 2006 World Congress of Soil Science. A new interdisciplinary journal, Vadose Zone Journal, has been approved. Glenn Wilson serves on a committee looking into a federation structure for the societies. A new division, A-9 (Professional Practitioners) was given permanent status. A motion was proposed by David Radcliffe to express our support for electronic publishing of all previous journal volumes and promoting a voluntary pre-pay of \$75 per member towards covering the cost of producing the necessary CDs. The latter will include a search engine. The motion was seconded and approved. David Nofziger then reported that the Journal of Natural Resource and Life Science Education was in financial trouble. A short

discussion followed, but no specific recommendations were made. The next item of discussion was that of volunteered papers at the annual meetings. The membership did not like the idea of requiring that a presenter of a volunteered paper should be a member of the society, but it was suggested that non-members should pay a higher registration fee than members. The requirement that the corresponding author should also be a member of the society was received favorably. To avoid the problem of having too many similar papers by the same authors, e.g., duplication of oral and poster presentations, the membership discussed charging a fee for each abstract (Peter Wierenga) or for charging for abstracts when submitting 4 or more (Bob Luxmoore). Members interested in serving as division chair or on a committee of the International Union of Soil Science (IUSS) are encouraged to visit the IUSS website. However, this time around no US citizens can become division chair.

Rien van Genuchten reported on behalf of the new Vadose Zone Journal (VZJ). He especially thanked Bob Luxmoore for all his help in getting the new journal established. There are currently 19 associate editors, which will most likely be expanded to 25. The associate editors represent many fields of interest, such as soil physics, soil chemistry, soil microbiology, geo-hydrology, civil engineering, chemical engineering, etc. The journal will be an all electronic journal and the first issue is planned for June/July 2002. A manuscript tracking system will allow one to follow progress of a manuscript during the review process. More information about VZJ can be obtained on the website <http://www.soils.org/journals/vzj.html>. Discussions are under way to give members of the American Geophysical Union, the Geological Society of America, and the American Chemical Society the same subscription rate as SSSA members.

Our Technical Editor, David Radcliffe, announced two new S-1 members to the editorial board, viz., Yakov Pachepsky and Laosheng Wu. A manuscript tracking system will be implemented in early 2002.

Jacob Dane and Clarke Topp reported that Methods of Soil Analysis, Part 4 - Physical Methods was finished. The publication date is set for Spring 2002.

Jan Hopmans reported that the Global Soil Physics Data Base was not yet completed.

Bob Luxmoore and Glenn Wilson briefly discussed the need of a federation structure of the ASA, CSSA, and SSSA combined with other societies into something like a Land Resources Federation of approximately 40,000 members. This would be helpful for financial and organizational reasons.

New Business:

Magdi Selim announced that 219 S-1 papers were presented in Charlotte. This was the second highest number, only to be surpassed by S-6. The 2001 S-1 program contained 5 symposia: Don Nielsen, Temperature Effects on Soil Physical Properties, Spatial Variability in Soils, Quantitative Agricultural Management Effects on Soil, and Bridging Scales in Soil Physics.

Andrea Engebretson spoke on behalf of the Council of Soil Science Examiners (CSSE) located in Madison, Wisconsin. She discussed involvement of the SSSA regarding exams for ARCPACS and licensing states, and the setting of performance criteria. Work of the CSSE is especially important for students going into consulting and for continuing education. Information is available on the CSSE website.

Glenn Wilson presented a proposal for the S-1 Early Career Award. He handed out copies of the nomination and evaluation processes. Jan Hopmans moved that we accept the proposal. It was seconded and approved. The Early Career Award Committee consists of Jan Hopmans, Art Warrick, Gerard Kluitenberg, and the S-1 past chair Magdi Selim. Members will serve for three years and will be chair during their third year (note: this means that one member must be replaced in 2002 after one year of service, and another member must be replaced in 2003 after

two years of service).

Wilford Gardner announced that a Food Security program will be offered during the 2006 World Congress of Soil Science to be held in Philadelphia. The 2002 Congress will be in Bangkok, Thailand. Dr. Gardner praised the Thai facilities and encouraged the membership to make nominations for the different IUSS commissions (see the SSSA website for a nomination form).

Toby Ewing reported that the next Kirkham Conference will be held at Utah State in 2004.

Announcements:

Dani Or received the Don and Betty Kirkham Award from the committee chair Gerard Kluitenberg. Next year's committee chair will be Tim Ellsworth.

Magdi Selim announced that Warren Busscher and Keith Bristow were inducted as Fellows in the Soil Science Society; Bob Horton received the Soil Science Research Award; the Emil Truog Award was presented to Rodney Venterea. Jim Biggar and Dale Swartzendruber were the recipients of the Soil Science Distinguished Service Award.

Magdi Selim then introduced the incoming chair, Jacob Dane, who thanked Magdi for his excellent services to the S-1 division and adjourned the meeting.