

ILLINOIS SOIL CLASSIFIERS ASSOCIATION NEWSLETTER

Winter 2001

MESSAGE FROM THE PRESIDENT

It has been a very interesting year 2000 and we have many things to be thankful for such as the lack of incidents related to "Y2K", the stock market is still the stock market, the new millennium has begun, and the Illinois Soil Classifiers Association has completed its 25th year of being an Association. I almost forgot to mention the United States election experience with "chad" and "dimple". So please remember to vote in March for your candidate for office within the Illinois Soil Classifiers Association.

We should take a moment to reflect on our past. It took a few good men to have a vision for the creation of the Association. So I would like to thank the founders who in 1975 saw a need for the Illinois Soil Classifiers Association. The charter membership included 49 individuals. To think, a quarter century ago this Association primarily consisted of individuals who were associated with creating soil surveys for various counties within the state of Illinois. And now we have some of those same individuals who have transitioned into other areas of employment and expertise. It is amazing to see the wealth of knowledge and experience the

Association membership contains. Our hat is off to all of those who have made a difference in Illinois Soil Classifiers Association.

Presently, we have over 100 certified and non-certified members within the Illinois Soil Classifiers Association. It is a great testimony to see the diversity of membership. We have individuals who are conducting onsite soil investigations for subdivisions and septic systems to individuals who are digitally updating soil surveys. The variety of experience within our Association is very impressive. We should all take a moment to look at our individual experiences and notice how much of an impact we have had in the profession of soil science.

What does the future hold for the Illinois Soil Classifiers Association? My hope is that as a new millennium begins to dawn that each of us would look at our involvement and see where our strengths are as individuals and to utilize that strength to make a difference within Illinois Soil Classifiers Association. I believe the Illinois Soil Classifiers Association is one body made up of specific parts and for the body to function properly each part needs to contribute. My challenge to you, I will put in the form of a question. What are you doing to make an impact for the Association? Many of the Committee Chairpersons will be

forming committees so please accept the challenge and serve as part of the body. If you are presently serving on a committee, thank you for service as part of the body.

I hope you will join me in welcoming Karla Hanson as President of Illinois Soil Classifiers Association and that you will assist her in making our organization the best it can be.

In closing I would like to thank Doug Gaines for his work as Program Committee Chairman and the successful activities he organized such as the Summer Meeting in Galena and the Annual Meeting in Bloomington. I also thank Scott Wegman for his work on the ISCA web page (illinoissoils.org) as webmaster, Pat Kelsey for his work with the Conservation Congress, Don Fehrenbacher for his work with the State Advisory Commission for Private Sewage Disposal, Bruce Putman for his work with the Key to Wastewater Loading Rates and Steve Suhl for his work at the Farm Progress Show. Finally, I would like to say thank you to the Executive Council Bill Kreznor, Karla Hanson, Matt McCauley, Charles Frazee, and Bob Tegeler for their giving of a Friday to meet quarterly and discuss Illinois Soil Classifiers Association business.

Thank you once again for allowing me to serve you.

Kenneth N. Anderson, Jr.
President, ISCA

2001 ISCA ANNUAL MEETING

The 2001 Illinois Soil Classifiers Association Meeting will be on March 31, 2001 at Jumer's in Bloomington, Illinois. The Executive Council will meet at approximately 10:00a.m. with the meeting starting at approximately 12:00p.m. with lunch. Lunch will be \$13.00 (including desert, coffee or tea & sodas (or pop for you northerners)).

There will be three choices for lunch; 1. Rib eye Steak Sandwich 2. Roast Garlic Pork 3. Cobb Salad (grilled chicken breast). Ten (10) rooms have been reserved for Friday night March 30, 2000 with a group rate of \$80.00 for singles or doubles. The cut off date for reservations is March 09, 2000 (they are reserved under Illinois Soil Classifiers Association).

Jumer's sent information on three package deals they have:

1. \$145 (bring the kids for \$20 more)- Jumer's package includes Room for two, breakfast and dinner off Jumer's award winning menu, drink coupons for their lounge, pool & sauna, and a loaf of fresh baked bread to take home; available 7 days a week.
2. \$109.95 - Fantasy Friday package includes much the same except the breakfast in continental and dinner is off of a 'special' menu.
3. \$79.90 - Silver Sunday package

includes same as Friday package
minus the
drink coupons

Our own Scott Wegman and Tom
D'Avello will be our speakers. The
meeting
will consist of a look at our web site
and the latest on the GIS forefront
(hopefully interactive if we can make
it all work out).

Put March 31, 2001 on your
calendars. Hope to see y'all on the
31st.
Call or Email me if you have any
questions. Bring your families if you
wish, there may be a cut rate on the
meals for kids (I'm checking on that).

Send your reservations to Chuck
Frazee at 65 Gaffney Road;
Divernon,
Illinois 62530

Forward this to anyone you think
may be interested. I have
approximately
75% of our membership on Email at
this point. Thanks to all who helped
me
compile this list

Doug Gaines
Program Chair

ISCA COUNCIL MEETING MINUTES JANUARY 5, 2001

Present:
Ken Anderson, President
Karla Hanson, President-elect
Bill Kreznor, Past-president
Matt McCauley, Vice President
Charles Frazee, Treasurer

Bob Tegeler, Secretary
Gerald Berning, Chairperson,
Certification Board
Doug Gaines, Chairperson, Program
Committee

President Ken Anderson called the
Council Meeting to order at 10:30
AM.

Secretary's Report - Bob Tegeler.
The minutes were approved as
written. Bob reported that he had
sent dues notices for 2001 to 55
non-certified members.

Treasurer's Report - Charles
Frazee. The treasurer's report
showed a balance of \$9751.79 as of
January 5, 2001. Charles handed
out two reports: one for the year, and
one since the last council meeting.
Charles discussed some of the
expenses on the reports. The
Treasurer's report was approved as
written

Certification Board - Gerald
Berning. No new applications for
certification have been received to
date. Gerald also reported that 33 of
the 45 Certified ISCA Members have
recertified to date. He also reported
that one certified member will not
recertify but remain a Full Member,
since the individual is now working in
another state.

Standing Committee reports
Constitution, By-Laws and
Legislative - No report.
Ethics, Certification and
Membership - Bill Kreznor reported
that Bruce Houghtby's committee
had reviewed 2 applications for
Associate Membership. Bruce's
committee unanimously
recommended the applicants. The
Council approved Neil E. Molstad

and Jaimee W. Hammit as Associate Members.

Finance - Matt McCauley reported no new activities to date.

Newsletter - Ken Anderson reported that articles for the next newsletter are due by February 9. Committee reports are to be submitted to Pat Kelsey one week prior to the March 31 Annual Meeting. Matt McCauley has volunteered to serve as the editor of the newsletter for one year. He will assume the position after the annual meeting. It is anticipated that in the near future, upcoming events and newsletter deadlines will appear on the web page. Bob Tegeler mentioned that the 2001 dues notices contained a survey question to determine the members who would prefer to receive the newsletter via email. Bob will also have a sign-up sheet at the Annual Meeting to determine the members who want to receive the newsletter via email.

Nominations - Bill Kreznor reported that the ballot is complete, pending the approval of one of the nominee's application for full membership in ISCA. Bob Tegeler suggested that the newsletter containing the ballot, instruct members to write the word "Ballot" on the outside of the envelope, if they mail their ballot.

Public Relations and Education Committee/Special Appointee to State Advisory Commission for Private Sewage Disposal - Charles Frazee reported that the fifth draft of the state licensing act will not be voted on in January 2001 as originally planned. The vote could possibly occur next year.

Program - The Annual Meeting will be held on March 31 at Jumer's in

Bloomington. Doug Gaines discussed menu options; it was decided to chose the option that offers three food choices. Doug will determine if a dessert is included. He will also finalize the menu details. The program will include a presentation on the ISCA web page, soil view, and other soil related information available on the Internet. Doug will discuss presentation details with Scott Wegman and Tom D'Avello. Tom has volunteered to discuss Soil View and data available on the net; he could also possibly discuss the Cypress Quad project completed by the Carbondale MLRA Office, and georeferenced lab data in Illinois. Scott will give a presentation on the information available on the ISCA web page. The web page committee will also discuss future uses of the web page. Doug will determine if Jumer's has an Internet connection available. Doug is also planning on having a soil-texturing contest, with prizes for the winners.

Ad Hoc Committees

Historic - No report.

State Soil - No report.

Rare and Endangered Soils - No report.

Technical Criteria (Key to Wastewater Loading Rates) - No report. It is hoped that the revised key will appear in the ISCA newsletter for review and comment by ISCA members.

Old Business

ISCA Web page -The web page is working now, however some who have been on the web page has encountered difficulties. The committee will investigate the

possibility of finding a different server if the problems continue. The ISCA Council granted permission to the committee to correct the problems with the current server, or search for another server if the problem cannot be corrected.

ISCA shirts and patches - A note will be placed in the upcoming newsletter to determine member interest in ISCA patches and shirts. If there is enough interest, another shirt order will be considered as well as an order for ISCA patches. Bob Tegeler reported that we have 11 shirts in various sizes remaining from the original order of 50.

Forest Soils Workshop- Matt McCauley reported that the workshop will be held in Illinois this year. It is usually held during the second week of October, no other details are available at this time.

New Business

Burt Ray Award - Jack Riewerts, the 2000 recipient of the award, apparently did not receive the award. A motion was made to invite both Mr. Riewerts and Adam Lock the 2001 award recipient, to the 2001 Annual Meeting. They will receive the award and meal courtesy of ISCA. The motion passed. ISCA will insure that both award winners receive a \$50.00 cash award.

Soil Judging Contest October 2002 - The Region 3 Contest will be held in Illinois in 2002, and hosted by the University of Illinois-Urbana/Champaign. The possibility of having the contest in the same location as the last time it was held in Illinois will be discussed with Bob Darmody. The current ISCA President-elect Karla Hanson will

handle the contest arrangements.

The next ISCA Council Meeting will be held on March 31, 2001, at 10:30 AM, at the Bloomington Jumer's, prior to the Annual Meeting.

The meeting adjourned at 11:55 AM.

Respectfully submitted,

Robert Tegeler, Secretary

TREASURER'S REPORT FOR JAN 1, 2000 – DEC 31, 2000

Balance in Account – 01/01/00
\$10,691.83

Income:

Annual Meeting	525.00
Dues	3,115.00
Summer Meeting	285.00
Hats	18.00
Interest	259.56
Soil Cards	4.00
Shirts	<u>16.20</u>

Total Income \$ 4,222.76

Expenses

Administration	\$ 603.23
Annual Meeting	915.00
Awards	50.00
Summer Meeting	820.18
Newsletter	540.30
Internet	370.00
Farm Prog Show	613.09
Soil Survey Horizons	1,001.00
Conservation Cong	<u>250.00</u>

Total Expense \$ 5,162.80

Income – Expense \$ -940.04

Ending Bank Balance – 12/31/00
\$ 9,751.79

Charles Frazee, CPSC, Treasurer

STATE SOIL

State Rep Tom Dart (D-Chicago) filed House Bill 605 yesterday. The bill designates Drummer silty clay loam as Illinois' state soil. We need to start making legislative contacts to garner support for the bill. Monticello FFA and Chicago High School for Ag Sciences are working on this with Dart.

Please phone your State Rep and ask him/her to support HB605. Call both home and Springfield offices. Go to ISCA's web site to find some background info on the state soil (www.illinoissoils.org) To find info on your State Rep go to www.legis.state.il.us.

If you want to get more involved contact me at 217/353-6643 office or at 217/762-7697 home.

Bob McLeese

ISCA SHIRTS AND PATCHES

The Illinois Soil Classifiers Association is considering another shirt order, as well as an order for patches. The patches would have the same logo as the shirts and caps. These patches could be sewn onto caps, coats etc., and would range from \$1.70 to \$3.70 each depending on the total number ordered by the ISCA Membership. Currently, we have eleven shirts on hand from the original order of 50. If you would be interested in purchasing the patches or additional shirts, email or call:

217-625-7603

email: bob@family-net.net

If we receive a good response, the ISCA Council will consider ordering patches as well as more shirts.

Bob Tegeler, ISCA Secretary

NEWSLETTER VIA EMAIL OR REGULAR MAIL??

As you may have noticed, your last ISCA dues notice contained a question concerning the newsletter. Would you prefer to receive the newsletter via email or regular mail? Some of you responded; if you did not respond, there is still a chance to let your wishes known. There will be a sign-up sheet at the Annual Meeting, or if you will not be able to attend you can email or call: 217-625-7603
email: bob@family-net.net

Bob Tegeler, ISCA Secretary

ANNUAL COMMITTEE REPORTS

Constitution, By-Laws and Legislative

During the past year, there were no matters brought before this committee.

Respectfully submitted,

Jeff Deniger, Chair

Ethics, Certification and Membership

Members of the Ethics, Certification, and Membership Committee for 2000 were Cathy Swain, Todd Soukup, Gloria Westphal, and Bruce

Houghtby (Chair). I commend all members for taking time to serve the Association.

The Committee has reviewed seven applications this year. Mark Stelford and Ann Marie Mason have been approved as Full Members. John Ford, Niel Molstad, and Jaimee Hammitt have been approved as Associate Members. John Skip has been approved as an Affiliate Member. Mark Kohart's application is pending, waiting for more information.

I welcome all of these new members to the Association and thank them for their interest in the soil classification profession.

Bruce Houghtby, Chair

Newsletter and Conservation Congress

The Newsletter Committee consisted of Tom Hanzely, Sam Indorante and Pat Kelsey (Editor). The Newsletter was published only twice during the year as result of insufficient information to publish. The newsletter was distributed a total of 108 soil classifiers and interested parties in 2000.

I would like to thank Tom and Sam for their help and support this past year.

It has been my pleasure to serve ISCA as its regional delegate to the IDNR Conservation Congress IV. The Congress convened at the State Capitol Complex on Friday and Saturday September 7 and 8th, 2000. During that time we debated

more than 48 resolutions concerning the management of DNR lands and the rules by which DNR operates. On Sunday September 9, 2000, we convened in the Old State Capitol to vote on the measures sent forward from caucuses held statewide over the past two years. I was humbled by the history of the Old State Capitol and the ability to help shape future endeavors of the Illinois Department of Natural Resources. The most important role I played during the 3-day event was to make other natural resource groups aware of ISCA and the mission that it keeps. As I am want to do, I lobbied hard for my fellow colleagues to understand the importance of our work and how soil science and classification can and does have a profound impact on natural resource management. I believe that ISCA's participation in Conservation Congress IV was beneficial to both IDNR and the Association. Thank you for the privilege of serving.

Program Committee

Doug Gaines chaired the Program Committee. The Committee held two events: the summer meeting and the annual meeting. The summer meeting was held in the Driftless Region in JoDaviess County and the Annual Meeting will be held March 31, 2001 at Jumer's Lodge in Bloomington.

Public Relations and Education and On-site Wastewater Treatment Advisory Commission

UNIFORM STATE CODE DEAD?

After 15 meetings of committees, 10 days of full commission meetings, reorganization of the committee

structure and revised rules, it appears the idea of a single state code with minor variations is dead. The concern about too many licenses for contractors became an act/code killing issue with the septic installation industry. A revised act was proposed with different levels of licenses for different levels of expertise of septic design and installation. This created a high level of mistrust between the installation and the regulatory/ environmental factions. This has moved the commission to the realization that an act cannot be agreed upon until a relatively complete code is fleshed out first. This will probably delay a new code for as much as three years. There was a proposal at the last meeting on February 8th to avoid such a long delay by finding a sponsor for a "shell" bill by the February 22nd spring legislative deadline.

There is good news for ISCA. Four positive views are being accepted by a greater majority of commission members including industry representatives:

- 1) Soil classification is the best method for site evaluations.
- 2) Soil classifiers are the best qualified to complete these evaluations.
- 3) Surface discharges should be minimized- the soil is the best insurance against health and water quality problems.
- 4) Soil classification will be required in the future.

At the February commission meeting, these ideas were stated by

several individuals that in the past were "on the fence" or skeptical about soil classification. The primary reason for this is your work with septic installers and local county sanitarians. You are being observed and you are found to be professional and honest. One septic installer told me that if all the classifiers were like the one he works with, the state of Illinois would be in "good shape." My response was that the soil classifier spoken of was typical of all of us.

There are three principles that I believe will continue to advance our profession:

1. Always work at the highest level of professionalism and honesty.
2. Develop strong relationships of trust with your clients. Go the extra mile in service.
3. Provide them soils information, not septic field designs, however, when asked for an opinion be honest, but also be innovative with your focus on solutions.

Submitted by Don Fehrenbacher

Nominations

The offices of President-Elect and Vice President will be decided at the Annual Meeting. A ballot for these two offices is provided and the end of this newsletter. Please note that voting privileges are limited to Full Members, Honorary Full Members and Associate Members. The brief biographical sketches below are based upon information provided to the Nominations Committee by each candidate. Voting instructions are included on the ballot.

On behalf of ISCA, the Nominations Committee thanks each of the candidates for their willingness to run for office and serve our Association.

Bill Kreznor, Past-President and Chair, Nominations Committee

CANDIDATE BIOGRAPHIES

Les Bushue is a charter member of ISCA. He was born and raised near Effingham, Illinois. He earned both B.S. and MS. degrees in Soil Science at the University of Illinois at Urbana-Champaign. Les served as leader of and authored the Soil Survey of Adams County. He also was a Staff Soil Scientist in the SCS State Office until 1992. Les has been enjoying "retirement as a consulting Certified Professional Soil Classifier in both Illinois and Indiana. He also serves as Chair of the ISCA Ad-Hoc Historic Committee. Les resides in Champaign.

Mark Stelford is employed as a Farm Process Researcher for Case IH AFS Services in Maple Park, Illinois. He is also a Ph. D. candidate in the Environmental Geosciences Program in the Department of Environmental Geosciences and Geography at Northern Illinois University in DeKalb. His dissertation focuses on soil water and landscape relationships. Many of you will recall Mark addressing precision farming and the use of technology in soil science as the featured speaker at our 1999 Annual Meeting. Mark earned both B.S. and M.S. degrees at Northern Illinois University. He has been a member of ISCA since 1996. Mark lives in Sycamore.

Vice-President

Tom Copenhaver serves both as Soil Scientist and Registered Sanitarian for the Lake County Health Department where he has been employed since 1990. He earned a B.S. degree in Soil Science at the University of Wisconsin-Stevens Point. Tom is certified as a Soil Scientist with ARCPACS and is a Registered Sanitarian with the National Environmental Health Association. He has been a member of ISCA since 1996. He enjoys gardening, landscaping and, when looking for aggravation, golf. He resides in Lake Villa.

Bill Teater is a Certified Professional Soil Classifier currently assigned to the NRCS Springfield MIRA Project Office. He has been employed as a Soil Scientist with the USDA for 21 years. Bill is "well-traveled ", having served as Project Soil Survey Leader in Tazewell, Woodford, and Marshall counties, and has field experience in four other counties. He earned a B.S. degree in Agronomy at the University of Illinois at Urbana-Champaign in 1979. Bill has been a member of ISCA since 1989. He lives in Tremont.

PARTING SHOT I



ISCA President-Elect Karla Hanson and her new toy.

PARTING SHOT II

Thank you for ten years of service and friendship. I will not miss putting the newsletter together but I will miss calling around and talking to the members to get information for the newsletter. We have come through a state code, public hearings, a new version of Soil Taxonomy, the digital soil survey, a switch from a few in private practice to many and Bob McLeese's never ending optimism. It has been enjoyable to watch the changes to our profession from the Editor's chair. Best Wishes to Matt McCauley as your new editor.

Patrick Kelsey, CPSC, Editor

ILLINOIS SOIL CLASSIFIERS ASSOCIATION

2001 BALLOT FOR ELECTION OF OFFICERS

PRESIDENT-ELECT (vote for one)

Les Bushue

Mark Stelford

VICE-PRESIDENT (vote for one)

Tom Copenhaver

Bill Teater

Voting privileges are extended only to Full, Honorary Full, and Associate Members.

Ballots must be received by the Chair of the Nominations Committee or the Secretary of ISCA before the Call for Ballots during the Annual Meeting on 31 March 2001. If you will not be in attendance, ballots must be received by the Secretary of ISCA prior to the Annual Meeting.

Ballots received by mail by the Secretary after postal delivery on 30 March 2001 will not be counted. Ballots may be mailed to: Bob Tegeler, ISCA Secretary, 124 Joan Drive, Divernon, IL 62530. Please write "Ballot" on the outside of the envelope.

ISCA NEWSLETTER

Spring 2001

Don't Miss Out

As we look ahead to this upcoming year there will be several opportunities to get involved with ISCA related activities throughout the state. The ILICA Annual Show will be held August 28th-30th, 2001 at Illinois Central College in Tazewell County. One of the main themes at the show this year will be urban conservation and ISCA has allocated money for the soil pit display. In September ISCA members will get a chance to look at soils with fragipans and/or soils with fragic characteristics in Crawford County during our ISCA Fall Meeting. More info will be coming on this event. October 9th-11th Northeastern Illinois will be hosting the Central Forest Workshop. This event is a great way to learn about interesting and sometimes unique soils and meet soil scientist from other states. These activities are a good way to expand your base of knowledge, meet other professionals in the soil field and have a GREAT time! So, mark these dates on your calendar and don't let these opportunities pass you by!

Karla D. Hanson
President

INSIDE THIS ISSUE

Calendar of Events

Precision Farming Profitability

Key for Determining Loading Rates

ISCA Minutes

Call for Volunteers at the ILICA Show

In Memory of Albert Klingebiel

On March 29, 2001, in Silver Spring, Maryland, at the age of 90, Albert A. Klingebiel, a long-time distinguished ISCA member, was promoted to classify soils in heaven. He is survived by his wife Edith, three sons - Keith, Ken, and John, and a daughter Janice.

Thanks.

Ute Klingebiel, wife of Keith

New Editor

My name is Matt McCauley, and I am the new Editor for the ISCA Newsletter. I am a NRCS Resource Soil Scientist located in Benton in the southern part of the state.

As editor, I ask ISCA members to submit articles for the newsletter that they think would be of interest to other members. I need the input of as many members as possible in order to provide a quality newsletter. I would also accept any recommendations about the style of the newsletter. I am not currently capable of E-mailing the newsletter to those of you that requested the E-mail option. Hopefully, I will be able to do this in the near future.

The proposed change to the key for determining sewage subsurface loading rates is within this issue. An Ad Hoc Committee led by Bruce Putman developed these changes. Please review, and provide Bruce Putman with any input about the proposed changes.

Please check to make sure your name, address and telephone number are listed correctly on the enclosed list. Please, inform Bob Tegeler or Jim Hornickel about any needed changes.

"Precision Farming Profitability"

This new book shows farmers how to use site-specific tools and strategies to improve crop management. The book is a joint effort between Purdue's Site-Specific Management Center and CNH Global, N.V., which manufactures CaseIH and New Holland farm equipment.

Topics covered in "Precision Farming Profitability" include: estimating precision farming benefits, variety-performance testing with GPS, drainage, soil fertility, weed control, yield monitoring and mapping, soil sampling, remote sensing, variable-rate technologies, geographic information systems, on-farm research, manure management, and weather information. The 132-page book contains 14 chapters on profitability issues and reference material, as well as a glossary of precision farming terms. Color photos, graphs, and worksheets are scattered throughout the book, along with short stories from farmers who've used site-specific methods.

To order call the Purdue Media Distribution Center toll-free at (888) 398-4636 or by e-mail at media.Order@ces.purdue.edu. A printable order form is available on the Purdue site-specific management web site at <http://www.purdue.edu/ssmc>. The book is \$25.

Interactive Agronomy Handbook

<http://web.accs.uiuc.edu/aim/IAH>

Want to speed up calculations for seeding rates, nitrogen use, and many other agronomic decisions? This site will lead you to numerous graphs and calculators for information in the 2001 Agronomy Handbook.

ILLINOIS: Research, Teaching, and Outreach

This free bulletin is sent to anyone interested in learning about current programs and research results of the College of Agricultural, Consumer, and Environmental Sciences. To subscribe call (217)333-4780 or write: Editor - ILLINOIS, Information, Technology and Communication Services, 9 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801, ilres@uiuc.edu

Mark Stelford

CALENDAR OF EVENTS

SPECIAL EVENT

The 2001 Conservation Expo will be held near East Peoria, adjacent to Illinois Central College, located near the bluffs of the Illinois River, on the south side of Route 24 in Tazewell County. The Illinois Soil Classifiers Association (ISCA) in cooperation with the Natural Resources Conservation Service (NRCS) is planning a soils exhibit.

The main attraction to the exhibit will be an in-ground soil display featuring soils as a medium for on-site wastewater disposal, for earthen fills and purification of well water, a water control valve, basic soil properties, soil development and geologic time, and additional displays to be planned. Adjacent to the in-ground soil display will be a 10x15' tent that will contain other displays to be determined.

ISCA and NRCS will need plenty of help to make this a successful and educational display. Please volunteer for the time slots listed under "ShowTime" located on the volunteer schedule. Two persons are needed for each ½ day of the show. It will be an enjoyable time and you can plan to take in the Expo tours of your choice after your time slot is completed for the soil display.

Contact: Steven E. Zwicker, CPSC

E-mail: steve.zwicker@il.usda.gov

Phone: (815) 875-8732 Ext. 116

ISCA Summer / Fall Meeting

Mark your calendars for September 14-15, 2001 for our annual Summer / Fall get-together. This year our meeting will be held on the evening of Friday Sept. 14 at the Lincoln Trail State Park just south of Marshall, Illinois. A tour of soils exhibiting fragipan characteristics will be held on Saturday Sept. 15 in Crawford County. Transportation and lunch will be provided.

For those wishing to stay over, camping is available at the park for \$10/night with electric and \$6/night for tent. Several motels are within 6 miles of the park with rooms going for under \$50.

For those of you who decide to camp out, the weather should be very pleasant. There is better than an 80% chance for clear sky on both days with an average high temperature of 80°F and low of 52°F. A 146-acre lake is available to boat or fish in. Boat rentals are available. For more information about the park, log onto

<http://dnr.state.il.us/lands/landmgt/parks/lincoln.htm>

More information about our meeting will follow soon.

Chris Cochran, Program Chair

217-581-7873

KEY FOR DETERMINING SEWAGE SUBSURFACE LOADING RATES (g/d/sq. ft.) FOR ILLINOIS SOILS (1)

Moist Consistence	Texture	1. Fragmental; Ext. or vgrs	2. s, lcs, ls, grs, cs, grls	3. fs, lfs, csl	4. sl, fsl, grsl, grl, grsil,	5. 1, sil, vsl, scl, si, vfs, lvs, grcl	6. sicl, cl (<35% clay)	7. sicl, cl (>35% clay)	8. sc, sic, clay(9)	Structureless or massive																													
										Granular, Angular and Subangular Blocky; Prismatic						Till (3)									Loess, Outwash, Alluvium, Lacustrine(8)			Till (3)											
										Loess, Outwash, Alluvium Lacustrine(8)			Weak			Moderate, Strong			Weak			Moderate, Strong			vfr	fr	fi	vfr, fr	fi, vfi										
										vfr, fr	fi	vfr, fr	fr	fi	fr	fi	fr	fi	fr	fi	fr	fi	fr	fi						fr	fi	fr	fi						
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
>1.00 (4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
.84	.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
.75	.84	N/A	.75	N/A	.69	N/A	.75	N/A	N/A	.62	N/A	.62	N/A	.40	.40	.52	.40	.52	.40	.45	.62	.52	.45	.62	.52	.45	.62	.52	.40	.45	.62	.52	.45	.62	.52	.45	.62	.52	
.62	.69	.62	.75	.62	.45	.40	.62	.52	.45	.62	.40	.62	.40	.62	.45	.62	.52	.45	.45	.62	.62	.52	.45	.62	.52	.45	.62	.52	.40	.45	.62	.52	.45	.62	.52	.45	.62	.52	
.52	.52	.45 (6)	.62	.52	.40	.27 (6)	.52	.40	.27 (6)	.40	.27 (6)	.52	.40	.27 (6)	.45	.62	.52	.45	.45	.62	.62	.52	.45	.62	.52	.45	.62	.52	.40	.45	.62	.52	.45	.62	.52	.45	.62	.52	
.45 (6)	N/A	.40 (6)	.52	.40	.27 (6)	.20 (6)	.40 (6)	.27 (6)	.20 (6)	.27 (6)	.20 (6)	.40 (6)	.27 (6)	.20 (6)	.40	.27 (6)	.20 (6)	.40	.27 (6)	.20 (6)	.40	.27 (6)	.20 (6)	.40	.27 (6)	.20 (6)	.40	.27 (6)	.20 (6)	.40	.27 (6)	.20 (6)	.40	.27 (6)	.20 (6)	.40	.27 (6)	.20 (6)	
N/A	N/A	N/A	N/A	.20	N/A	N/A	N/A	.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SOIL PROPERTIES HAVE VERY SEVERE LIMITATIONS: SUBSURFACE DISPOSAL NOT RECOMMENDED

FOOTNOTES:

- 1) Disturbed soils are highly variable and require special on-site investigations.
- 2) Moderate or strong platy structures for the soil textures in Groups 4, 5 and 6 have a loading rate of 0.40 g/d/sq. ft. Platy structure having firm or very firm consistence and/or caused by mechanical compaction has a loading rate of 0.0 g/d/sq. ft.
- 3) Basal glacial tills structured by geogenic processes have the same loading rates as structureless glacial till.
- 4) This soil group is estimated to have very rapid permeability and exceeds the maximum established rate in Section 905. Illustration H, Exhibit A of this part.
- 5) N/A means not applicable.
- 6) These soil groups are estimated to have moderately slow to very slow permeability and is less than the minimum established rate in Section 905. Illustration H, Exhibit A of this part.
- 7) N/R means not recommended. These soils have loading rates considered too low for conventional subsurface disposal.
- 8) In some areas, lacustrine material may have physical properties similar to glacial till and should be placed in the glacial till columns.
- 9) Non-swelling (1:1 lattice clays) formed in bedrock residuum have a loading rate of .27 g/d/sq. ft. Swelling (2:1 lattice) clays are not recommended for subsurface disposal.

Proposed changes to the text of the State of Illinois Private Sewage Disposal Code:

Section 905.55 Subsurface Seepage System Design Requirements.

- a) Soil Investigation.
 - 2) The following persons are qualified.....
 - C) Delete paragraph regarding local health department employees.
 - D) Delete paragraph regarding local health department employees.
 - 3) Delete sentence and replace with: *“If conflicting soils investigation information is provided about a given site, a NRCS soil scientist that is a Certified Professional Soil Classifier may be requested to provide an additional opinion.”*

Section 905.60 Subsurface Seepage System Construction Requirements.

- a) Seepage Field Requirements.
 - 1) Delete the second sentence: “ The least permeable soil profile between the top of the gravel or gravelless pipe and the limiting layer shall be used to determine the size of the subsurface seepage system.”
 - 8)A) Delete the paragraph and insert the following.
 - “The least permeable soil profile layer between the top of the gravel or gravelless pipe to a depth of 1 foot below the bottom of the seepage trench shall be used to determine the size of the subsurface system. For mound or at-grade systems, the upper two feet of the soil shall be used to determine system size.”*

ISCA 26TH ANNUAL MEETING MINUTES

March 31, 2001

Jumer's Hotel, Bloomington, Illinois

Welcome and opening remarks by Ken Anderson, ISCA President.

Invocation was given by Wiley Scott.

Approximately 37 members and guests were in attendance.

Lunch was served.

President Ken Anderson called the business meeting to order at 1:30 PM.

Secretary's Report - Bob Tegeler reported that he prepared minutes for the five Council Meetings held during the past year. He submitted a report of ISCA activities at the Illinois Cooperative Soil Survey Work Planning Conference 2000. The ISCA database was coordinated with Charles Frazee, ISCA Treasurer; and Jim Hornickel, Secretary/Treasurer of the Certification Board. ISCA magnets were ordered for the 2000 Farm Progress Show. Currently there are 100 members of ISCA.

Treasurer's Report - Charles Frazee reviewed income and expenses for the past year. We currently have an inventory of about \$1500.00 in shirts, caps, magnets, and ISCA cards.

Certification Board - Bob Tegeler gave the certification board report. Currently there are 45 certified members. One certified member decided not to recertify during the past year, but remains a Full Member. Two members did not recertify and are no longer members of ISCA. Bill Teater and Steve Elmer, completed the certification requirements during the past year and are now certified.

Special Appointee to State Advisory Commission on Private Sewage Disposal - Don Fehrenbacher reported that it appears the idea of a universal state code is dead. The concern about too many licenses for contractors became an act/code killing issue with the septic installation industry. The commission now realizes that a revised act cannot be agreed upon until a relatively complete code is determined first. This will probably delay a new code for as much as three years. Don is continuing to work on the list of Certified Soil Classifiers who are conducting onsite in the state. He is still receiving and soliciting additions to the list, to fill out gaps in the state. The list will be submitted to the web page manager after one more solicitation is complete. Don also reported that IEPA and USEPA could be reviewing the current surface discharge rate of 1500 gallons per day. Nothing definite at this time. Don mentioned that Pat Kelsey made a presentation at the Northern Illinois Septic Contractors Association in February 2001, all of the Commission's members were in attendance. Comments made by Commission members and others after Pat's presentation were highly favorable of Certified Soil Classifiers. Many members of the septic industry are also supportive of Certified Soil Classifiers conducting onsite.

Illinois Conservation Congress - Pat Kelsey reported on the Conservation Congress held September 7 and 8, 2000. The Conservation Congress is rich on parliamentary procedure. Participation in the congress, as a regional delegate, enabled Pat to provide other groups a better understanding of the importance of soil science in resource management. In the past soil science was represented by the Soil and Water Conservation Districts and the Soil and Water Conservation Society. Pat mentioned that many members of the congress did not know that ISCA existed. Now, ISCA could possibly be contacted by the Illinois Department of Natural Resources for technical input on soils related legislation. Pat considered participation in the congress a positive experience for ISCA.

Committee Reports

Constitution, By-Laws and Legislative - Jeff Deniger, Chairperson. Jeff reported that no new matters were brought before the committee during the past year.

Ethics, Certification and Membership - Bruce Houghtby, Chairperson. Cathy Swain, Todd Soukup, and Gloria Westphal also served on the committee. The committee reviewed eight applications this year. Mark Stelford and Ann Marie Mason were approved as Full Members. John Ford, Neil Molstad, and Jaimee Hammitt were approved as Associate Members. John Skrip was approved as an Affiliate Member. One application for full membership was not approved, since the applicant did not have fifteen credit hours of soils related courses.

Finance - Matt McCauley, Chairperson. Matt audited the books of the Illinois Soil Classifiers Association and found that the books were in order and accounts verified. The bank balance as of December 30, 2000 was \$9751.79.

Newsletter - Pat Kelsey, Chairperson. Sam Indorante and Tom Hanzely were also on the newsletter committee. Pat mentioned that two newsletters were published during the past year. The next newsletter will contain the Revised Illinois State Key to Wastewater Loading Rates for Illinois soils.

Nominations - Bill Kreznor, Chairperson. Mark Bramstedt and Mary Kluz also served on the committee. The President-Elect

and Vice President were decided at the Annual Meeting. The call for ballots was issued.

Public Relations and Education – Don Fehrenbacher, Chairperson. Don reported that the Burt Ray Award plaque has been updated. He also reported that Adam Lock was the recipient of the Burton W. Ray Scholarship. Don stated that several ISCA members have made presentations at numerous conferences and meetings during the past year.

Program – Doug Gaines, Chairperson. Doug reported that a two day ISCA Summer Meeting was held in the Driftless Region in Jo Daviess County, on August 11 and 12, 2000.

Historic – Lester Bushue, Chairperson. Roger Windhorn and Earl Voss also served on the committee. Les reported that his committee filed all of the material submitted to them during the year. Additional organization of the files has been completed, and several duplicate records removed. The committee began recording the names of some of the ISCA officers and committee members of the past years.

State Soil – Robert McLeese, Chairperson. Bob handed out a chronology of the State Soil Bill. He reported that the State Soil Bill passed the House of Representatives by a vote of 113 to 0. The bill now moves on to the Senate Rules Committee. Senator Duane Noland is the Chief Sponsor and Senator Bowles is a Co-Sponsor. Lobby Day is scheduled for April 19, 2001. The following week, FFA Members will testify before a Senate Committee. It is hoped that the State Soil Bill will go to the Full Senate the following week. Bob mentioned a website where the progress of the State Soil Bill can be tracked. He also suggested that ISCA Members contact their Senators.

Rare and Endangered Soils - This Ad Hoc Committee was discontinued by a vote of the ISCA Executive Council, at the request of Bob McLeese, Chairperson of the Committee. Bob reported a lack of activity related to rare and endangered soils.

Technical Criteria – Bruce Putman, Chairperson. Bruce reported that the draft of the Revised Illinois State Key for Wastewater Loading Rates for Illinois Soils is complete, and will be in the next ISCA Newsletter. ISCA Members may make comments during the period following publication of the key in the newsletter. Comments will be considered during preparation of the final draft.

OLD BUSINESS – None

NEW BUSINESS

2002 Illinois Soil Survey Centennial - Bob McLeese reported that the Natural Resources Conservation Service will establish a committee with other Illinois Partner agencies and professional societies, to plan centennial activities. Bob suggested that ISCA designate someone to serve on the committee. Karla Hanson will address ISCA involvement during the upcoming year.

Project 152 - Bob McLeese discussed possible State Soil related activities if the State Soil Bill passes. He suggested the preparation of a large quantity of monoliths of Drummer. Soil Information Sheets discussing Drummer are almost complete. ISCA will need to get involved in these activities in the near future if the Bill passes.

Burton W. Ray Scholarship – The award this year goes to Adam Lock, a student at the University of Illinois-Urbana/Champaign. Bob McLeese will deliver the traveling plaque to Bob Darmody who will in turn deliver the award to Mr. Lock. He will also receive a \$50.00 monetary award.

Correspondence - Earl Voss reported that Gene Staley, former State Soil Scientist had passed away.

Election Results – Lester Bushue, President-Elect; and Bill Teater, Vice-President.

The Keynote Address – The address was presented by ISCA Members Tom D'Avello and Scott Wegman. Tom discussed Soil View, Digital Soil Surveys and Digital Spatial Data. Scott Wegman discussed the ISCA Web Page.

Bent Auger Award – The Bent Auger Award recipients were Ron Collman and Sam Werner.

Soil Texture Contest - Winners this year were Wiley Scott, First Place; Larry Gramm, Second Place; and Chris Cochran, Third Place.

Special Presentation - Ken Anderson presented Pat Kelsey with a plaque, in appreciation for 10 years of service as Editor of the ISCA Newsletter.

Passing of the Gavel – Ken Anderson handed the gavel to incoming President Karla Hanson. Karla urged ISCA Members to submit articles for the ISCA Newsletter. Karla presented her committee chairpersons.

2001 ISCA Officers and Committee Chairpersons

Executive Council

President – Karla Hanson
Vice-President – Bill Teater
Treasurer – Charles Frazee
Secretary – Bob Tegeler
Past-President – Ken Anderson
President-Elect – Lester Bushue

Committees

Nominations – Ken Anderson
Finance – Bill Teater

Newsletter – Matt McCauley
Public Relations and Education – Don Fehrenbacher
Constitution, By-Laws, and Legislative - Jeff Deniger
Ethics, Certification and Membership – Mark Bramstedt
Program – Chris Cochran

Ad Hoc Committees

State Soil – Robert McLeese
Historic – Roger Windhorn
Special Appointee to State Advisory Commission on Private Sewage Disposal – Don Fehrenbacher
Technical Criteria – Bruce Putman
Web Page - Scott Wegman

Certification Board Members

Gerald Berning, Chairperson
Jim Hornickel, Secretary-Treasurer
Paul Brown
Doug Gaines
Bob Oja
Steve Zwicker

Illinois Conservation Congress Delegate- Pat Kelsey

The meeting adjourned at 3:30 PM.

Respectfully submitted,

Robert Tegeler Secretary

State Soil

Bob McLeese provided the following information about the state soil:

HB 605 passed the senate by a vote of 54 - 0 on May 9th. It had previously passed the house by a vote of 113 - 0. It has one more hurdle to clear, which is being signed by the Governor. A signing ceremony is being worked out with IDOA.

ILLINOIS SOIL CLASSIFIERS ASSOCIATION

CERTIFIED PROFESSIONAL SOIL CLASSIFIERS

Name	Address	City	State	Zip	Phone	Practice
Kenneth N. Anderson, Jr.	Kane County Development Dept. 719 Batavia Ave.	Geneva	IL	60134-	(630) 232-3495	Gov't Private
Gerald V. Berning	2811 Brown Street	Alton	IL	62002-	(618) 465-9336	Gov't
Mark W. Bramstedt	USDA NRCS 1001 East Grant Street, Suite A	Watseka	IL	60970-	(815) 432-6639	Gov't
Paul E. Brown	215 W. Washington Street	Pontiac	IL	61764-	(815) 842-2042	Private
Lester J. Bushue	1911 Scottsdale Drive	Champaign	IL	61821-	(217) 359-7447	Private
Laura L. Craven	761C Columbine Village Dr.	Woodland Park	CO	80863-	(719) 686-9408	Gov't
Robert G. Darmody	1305 Weathervane	Champaign	IL	61281-	(217) 359-8501	Univ/Private
John C. Doll	1702 Harrington Drive	Champaign	IL	61821-	(217) 398-3040	Gov't
Steven L. Elmer	27892 Ebenezer Rd.	Geneseo	IL	61254-	(309) 944-0441	Gov't/Private
Tonie J. Endres	6012 Lakeside Blvd.	Indianapolis	IN	46278-	(317) 290-3200	Gov't
Donald J. Fehrenbacher	USDA NRCS 1201 S. Gougar Road	New Lenox	IL	60451-	(815) 462-3106	Gov't
Charles J. Frazee	65 Gaffney Road	Divernon	IL	62530-	(217) 628-3518	Private
Douglas B. Gaines	8611 Wieseman Road	Worden	IL	62097-	(618) 459-8619	Private
Dana R. Grantham	9238 N. 15th Avenue	Butler	IL	62015-2301	(217) 532-5285	Private
Scott D. Harding	9833 Lower Marine Road	Marine	IL	62061-	(618) 644-8171	Private
James K. Hornickel	104 Cornell Drive	Normal	IL	61761-	(309) 862-2500	Gov't/Private
Bruce J. Houghtby	4314-A Crystal Lake Road	McHenry	IL	60050-	(815) 344-4020	Private
Samuel J. Indorante	615 S. Wedgewood Lane	Carbondale	IL	62901-	(618) 529-3586	Gov't
Patrick D. Kelsey	711 Wilder Street	Aurora	IL	60506-3126	(630) 896-2909	Private
Linus M. Kiefer	103 Wilson Drive	Watseka	IL	60970-	(815) 432-5741	Private
Mary A. Kluz	1797 Iron Springs Rd, Box 385	Franklin Grove	IL	61031-0385	(815) 456-3333	Private
William R. Kreznor	904 Powers Road	Woodstock	IL	60098-2702	(815) 338-2362	Private
Emil E. Kubalek	3408 56th Street Place	Moline	IL	61265-	(309) 797-3208	Private
Gary W. Lenz	3925 J J Road	Waterloo	IL	62298-2711	(618) 939-4986	Private
Michael E. Lilly	214 Dublin Court	Brandon	MS	39047-8051	(601) 992-2562	Gov't
William M. McCauley	1571 Club Road	Carterville	IL	62918-	(618) 438-5872	Gov't
Mark S. McClain	Soil Horizons, Inc. 1300 Drawbridge Lane	Lafayette	IN	47905-7814	(800) 288-7645	Private
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Robert P. OJA	1143 N. Seminary Ave, Box 168	Woodstock	IL	60098-	(815) 338-0099	Private
John R. Pearse	309 S. State Hwy 1	West Union	IL	62477-	(217) 279-3651	Private
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David B. Rahe	828 S. Oak Street	Hillsboro	IL	62049-	(217) 532-6887	Gov't
J. Wiley Scott	411 N. Dorchester Drive	Mahomet	IL	61853-9539	(217) 586-4233	Private
Martha E. Sheppard	RR 2	Pearl	IL	62361-	(217) 829-4409	Gov't
Todd A. Soukup	1907 West Lockport Rd.	Plainfield	IL	60544-	(815) 439-6774	Private
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Earl E. Voss	4009 Farhills Drive	Champaign	IL	61822-	(217) 352-3089	Private
Donald D. Walker	1641 E. County Road 1800	Carthage	IL	62321-	(217) 746-8601	Private
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Gloria J. Westphal	31849 117th Street	Twin Lakes	WI	53181-	(262) 862-2232	Gov't
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Steven E. Zwicker	251 Country Rd., 1550N	Bradford	IL	61421-	(309) 897-7416	Gov't

ISCA MEMBERS

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Linus M. Kiefer	103 Wilson Drive	Watseka, IL 60970	(815) 432-5741-
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David Krumwiede	RR2 #21	Sumner, IL 62466	(618) 936-2084-
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Robert P. OJA	1143 N. Seminary Ave, Box 168	Woodstock, IL 60098	(815) 338-0099-3
Ken Olson	3009 Kyle	Urbana, IL 61802	(217) 384-4335-
Dale Parker	E 12325 Lowery Rd.	LaFarge, WI 54639	(608) 625-4033-
John Paschke	23741 Old Port Rd. #101	Bonita Springs, FL 341351716	(941) 992-4035-
Neil Patterson	321 N. Oaklawn Ave	Elmhurst, IL 60126	(630) 832-0092-
John R. Pearse	309 S. State Hwy 1	West Union, IL 62477	(217) 279-3651-
Don Phillips	R.R. 1, Box 14	Shobonier, IL 62885	(618) 846-2202-
Bruce R. Putman	1200 Portage Lane	Woodstock, IL 60098	(815) 338-6218-
David B. Rahe	828 S. Oak Street	Hillsboro, IL 62049	(217) 532-6887-
Elmer L. Readle	103 Dogwood Dr.	St. Augustine, FL 32080	(914) 471-4542-
Loyal Reinebach	1022 S. 21st St.	Quincy, IL 62301	(217) 228-8758-
Richard Rust	1922 Autumn	St. Paul, MN 55113	(651) 644-9514-
Larry Sabata	3030 SE Aries Ave.	Topeka, KS 66605	(785) 267-5091-
J. Wiley Scott	411 N. Dorchester Drive	Mahomet, IL 618539539	(217) 586-4233-
Martha E. Sheppard	RR 2	Pearl, IL 62361	(217) 829-4409-
John Skrip	3900 W. Bryn Mawr Ave #205	Chicago, IL 60659	(773) 279-9225-
Todd A. Soukup	1907 West Lockport Rd.	Plainfield, IL 60544	(815) 439-6774-
Mark Stefford	12140 Aldrich Rd.	Sycamore, IL 60178	(815) 895-9666-
Steven E. Suhl	101 Deer Creek Road	Rochester, IL 62563	(217) 498-8511-
Catherine A. Swain	1119 Southgate Ct	Aurora, IL 60504	(630) 505-7819-
William M. Teater	10469 Locust Rd.	Tremont, IL 61768	(309) 925-5905-
Robert A. Tegeler	124 Joan Dr.	Divernon, IL 62530	(217) 625-7603-

Earl E. Voss	4009 Farhills Drive	Champaign, IL 61822	(217) 352-3089-
Donald D. Walker	1641 E. County Road 1800	Carthage, IL 62321	(217) 746-8601-
Michael B. Walker	205 Co. Rd. B2 East #242	Little Canada, MN 55117	(651) 481-0994-
Donald L. Wallace	643 North Kansas	Edwardsville, IL 62025	(618) 656-8230-
Scott W. Wegman	27755 Diehl Rd.	Warrenville, IL 60555	(630) 863-1700-318
Benny J. Weiss	7555 Walnut Grove Road	Harrisburg, IL 62946	(618) 252-4292-
Sam Werner	320 Jackson St. PO Box 191	Westfield, IL 62474	(217) 967-5381-
Gloria J. Westphal	31849 117th Street	Twin Lakes, WI 53181	(262) 862-2232-
Dwayne R.. Williams	111 N. Almond St.	Carbondale, IL 62901	(618) 457-4946-
Roger D. Windhorn	1902 Fox Drive	Champaign, IL 61820	(217) 353-6634-
Steven E. Zwicker	251 Country Rd., 1550	Bradford, IL 61421	(309) 897-7416



NEWSLETTER

Summer 2001

News release on Drummer

Later this summer Governor George Ryan will sign House Bill 605, which officially declares Drummer silty clay loam as the official soil for the State of Illinois. "Our hope is that by declaring Drummer soil as an official state symbol, we can raise the awareness of people and help make the connection between the success and the beauty of our state and the soil resources that make it all possible," says NRCS State Conservationist Bill Gradle. Drummer soil covers about 1.5 million acres in nearly half of Illinois' 102 counties.

"Fifteen other states have already established state soils," explains NRCS State Soil Scientist Robert McLeese. "Because we have rich, fertile, and productive soils, it's important to recognize this resource which has linked farmers and nonfarmers to so many successes," adds McLeese.

The push for Illinois' State Soil began in 1985 with the Illinois Soil Classifiers Association (ISCA), but soon grew to include the FFA. The idea had to be "sold"-the concept needed a sponsor and enough support to turn it into a bill that legislators could vote on and make into law.

An eager and energized group of high school students from Monticello, IL decided to take on the challenge and make things happen. Mindy Elvidge's Agricultural Science class, members of the Monticello FFA Chapter, rolled up their sleeves and went to work. They made phone calls, contacted other FFA Chapters as well as local and state congressional representatives, garnering support, enthusiasm, and a better understanding of the soil issue. Their letter-writing campaign sent word to newspaper editors as they flooded local media with facts, editorials, proposals, and information on the value and the need for soil. Last year Monticello's FFA Chapter joined forces with the Chapter from Chicago High School for Agricultural Sciences, who focused their information and lobby efforts on the urban-minded legislators in the Chicagoland area.

"By signing this bill into law, the state and all her citizens have recognized how crucial soil is to our state's history, our quality of life, and our future. This is just the beginning of a new commitment to soil," adds Gradle.

Submitted by Paige Mitchell-Buck

Editor's Notes

The ISCA Web page is operational again. It is located at <http://www.illinoissoils.org>. Be sure to log on and check it out. It is a very useful web page, and one that we can be proud of as an organization.

There are several upcoming events that ISCA will be involved with in the next three months. First, in August there is the ILICA Show, then in September is our fall meeting, and finally in October the Forest Soils Workshop. Hopefully, you can find the time to attend these events.

Don Fehrenbacher has provided some very interesting statistics on the installation of sewage disposal systems in Illinois. You may find some of the trends within this information interesting.

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Fall Meeting Information

Call for Volunteers at the ILICA Show

Forest Soils Workshop

ISCA Minutes

Number of Private Sewage Systems Installed

CALL FOR VOLUNTEERS FOR THE 2001 CONSERVATION EXPO

The 2001 Conservation Expo will be held near East Peoria, adjacent to Illinois Central College, located near the bluffs of the Illinois River, on the south side of Route 24 in Tazewell County. The Illinois Soil Classifiers Association (ISCA) in cooperation with the Natural Resources Conservation Service (NRCS) is planning a soils exhibit.

The main attraction to the exhibit will be an in-ground soil display featuring soils as a medium for on-site wastewater disposal, for earthen fills and purification of well water, a water control valve, basic soil properties, soil development and geologic time, and additional displays to be planned. Adjacent to the in-ground soil display will be a 10x15' tent that will contain other displays to be determined.

ISCA and NRCS will need plenty of help to make this a successful and educational display. Please volunteer for the time slots listed under "ShowTime" located on the volunteer schedule. Two persons are needed for each ½ day of the show. It will be an enjoyable time and you can plan to take in the Expo tours of your choice after your time slot is completed for the soil display.

Contact: Steven E. Zwicker, CPSC
 E-mail: steve.zwicker@il.usda.gov
 Phone: (815) 875-8732 Ext. 116

**Volunteer Schedule for the Illinois Land Improvement Contractors Show
 Conservation Expo 2001**

Dig/Pit Prep	Set up Starting 9:00		ShowTime			Takedown starting 9:00
Thursday 8/23	Monday 8/27		Tuesday 8/28	Wednesday 8/29	Thursday 8/30	Friday 8/31
S. Zwicker B. Teater S. Higgins	S. Zwicker B. Teater R. Windhorn M. Bramstedt S. Elmer	8:30 am- 12:00	S. Zwicker x _____	J. Berning x _____	R. Windhorn x _____	S. Zwicker S. Higgins x _____ x _____
		12:00 - 4:00 pm	C. Frazee x _____	x _____ x _____	x _____ x _____	
		4:00 - 7:00 Wed only		x _____ x _____		

Submitted by Steve Zwicker

ISCA Summer/Fall Meeting

Dear Member,

- The Illinois Soil Classifiers Association is holding its annual Summer/Fall meeting at the Red Oak Picnic Area in Lincoln Trail State Park near Marshall, Illinois in Clark County this year. The meeting and dinner will be held Friday, September 14, 2001 beginning at 7:00 pm. sharp.
- Our guest speaker is Melody Arnold, Macon County Conservation District. She will speak about the prairie and early settlement in this part of Illinois.
- A tour of soil pits featuring fragipans and/or soils with fragic characteristics will be conducted on Saturday the 15th. Transportation and lunch will be provided by ISCA for those attending the tour. A lively discussion is expected. All views are welcome.
- For those wishing to camp for the night, over 200 sites are available with electricity. Campsites cost about \$11/night. Tent camping is available for \$6/night. A brochure describing the 1023-acre park and 137 acre lake is enclosed with this mailing. Boat rentals are also available.
- For those of you who do not wish to "rough it", a block of 10 rooms has been set aside for our membership at Peak's Motor Inn, 107 E. Tretz Drive, Marshall, IL 62441; 1-800-646-7325 until August 31. Cost for the motel is \$39.94-single and \$47.95-double occupancy. This motel is 7 miles north of the picnic area. Other motels are in the area so getting a room shouldn't be a problem.
- Dinner will be catered by *Richard's Farm Restaurant*. The cost per attendee is \$10, which includes the dinner, tax and gratuity, payable in advance (see reservation form on following page). The dinner is mouth-watering and should please everyone --- there will probably be enough for seconds.

Menu:

BBQ pork loin, fried chicken, au gratin potatoes, green beans, pasta salad, slaw, seasoned salad, rolls, butter, coffee, tea, chocolate sheet cake, and fruit cobbler

- The meeting/dinner will be outdoors under a *ramada* with a great view of the lake through the trees. Rest-room facilities and a playground for the kids are close by. Parking is ample. The average temperature for September 14 is 80°F. with an average low temperature of 56°F. There is about a 10% chance that it could rain, however the ramada is large enough to seat 150 people comfortably. Insect repellent should keep away biting insects, so come prepared for a great time!!!

Hope to see you there. If you have any questions you can call or email Chris Cochran, Program Committee Chair, Ron Collman, or Sam Werner at (217) 581-7873; email Chris.Cochran@il.usda.gov or Karla Hanson at (630) 505-7819; email Karla.Hanson@il.usda.gov.

Submitted by Chris Cochran

21st Annual Central States Forest-Soils Workshop

October 9-11, 2001

Matteson, Illinois (just southeast of Chicago)

Field Trip destinations include:

Momence wetlands, At 2,500 acres, this is the last natural vestige of the presettlement million acre Grand Kankakee Marsh that extended from South Bend, IN to Momence IL. This stop will feature black oak sand forests and floodplain forests comprised of pin oak, river birch and swamp white oak. Special features include the northern most location for pumpkin ash, swamp cottonwood, American snowbell, and climbing hempweed in Illinois. Featured soils will be the Chelsea and Gilford series. This area provides habitat for six state-listed species and also supports a population of the red squirrel once thought to be extirpated from Illinois.

Iroquois State Fish and Wildlife Area, At four square miles in size, this is one of the finest and most expansive complexes of high quality sedge meadow, wet sand prairie, black oak sand savanna and pin oak flatwoods extant in Illinois. There are ten biotic communities recognized at this site. Significant features include 15 state-listed species, unusual species that find habitat here include scarlet oak, blackgum, fame flower, sun dew, lupine, pocket gophers, red squirrel, Regal fritillary, and Indiana skipper. This area is considered to be among the top six most important areas in Illinois for invertebrates associated with prairies and sedge meadows. Soils include the Oakville, Watseka, Granby, and Morocco series.

Midewin National Tallgrass Prairie, Established on February 10, 1996, Midewin is America's first National Tallgrass Prairie and at over 30 square miles it is also the largest prairie restoration ever attempted. Special features include 16 state listed species, 108 breeding birds, including the state's largest population of upland sandpipers. Midewin contains dolomite prairies, wetlands, and Starr Grove, a presettlement oak grove on Prairie Creek. We will visit Starr Grove where the featured soil will be Ozaukee series (formerly Morely), an isolated island of wooded Alfisols surrounded by the Elliot series, a prairie Mollisol.

Detailed Agenda and Registration Form will be mailed in August, 2001.

For more information contact Tom Ward, 217/353-6647 (Tom.Ward@il.usda.gov) or Bob McLeese, 217/353-6643 (Bob.Mcleese@il.usda.gov), 1902 Fox Drive, Champaign, IL 61820.

Sponsors: U.S. Department of Agriculture
Natural Resources Conservation Service
Forest Service
Illinois Department of Natural Resources
Division of Forest Resources
Division of Natural Heritage
Soil and Water Conservation Districts for
Will-South Cook, Iroquois, and Kankakee Counties
Illinois Soil Classifiers Association

Submitted by Tom Ward

MINUTES
ISCA COUNCIL MEETING
APRIL 19, 2001
NRCS STATE OFFICE, CHAMPAIGN, IL

Present:

Karla Hanson, President
Lester Bushue, President-Elect
Ken Anderson, Past-President
Bill Teater, Vice-President
Charles Frazee, Treasurer
Bob Tegeler, Secretary
Jim Hornickel, Secretary-Treasurer, Certification Board
Jeff Deniger, Chairperson, Constitution, By-Laws, and Legislative Committee
Don Fehrenbacher, Special Appointee to State Advisory Commission on Private Sewage Disposal, and
Chairperson, Public Relations and Education Committee
Chris Cochran, Chairperson, Program Committee
Cathy Swain, Constitution, By-Laws, and Legislative Committee

The Council Meeting was called to order by President Karla Hanson at 10:00 AM.

Secretary's Report - Bob Tegeler. The minutes were approved as written. Bob handed out the minutes from the 26th Annual Meeting. Bob mentioned that Doug Gaines will send an email message to ISCA members, to determine if we want our email addresses on the ISCA Web page. Karla also suggested that a note concerning this could be inserted in the next newsletter. Bob also mentioned the member response concerning the choice of receiving the newsletter via email or regular mail. This information will be sent to Matt McCauley, Newsletter Editor. Some ISCA members requested that the newsletter be mailed to two email addresses. Bob suggested that we maintain only one email address in the database. The ISCA Council concurred with this suggestion. Bob also reported that interest in ISCA patches and shirts was low, so no orders will be made at this time. Two ISCA members have not paid their 2001 dues. One member still intends to pay the dues. The other member will be dropped from the membership list.

Treasurer's Report - Charles Frazee. The treasurer's report showed a balance of \$12029.20 as of April 19, 2001. Charles mentioned that he had sent 77 subscriptions to *Soil Survey Horizons*, this corresponds to the number of Full and Associate members in ISCA. He also reported that income exceeded expenses for the 26th Annual Meeting, by \$194.00. The Treasurer's report was approved as written. Ken Anderson submitted a bill for the plaque that was

given to Pat Kelsey.

Certification Board - Jim Hornickel. Jim reported that there are 45 Certified ISCA Members. He mentioned that two certified members will have to recertify this coming year. Jim handed out a list of Certified ISCA Members. He has sent the updated list to Doug Ebelherr of the Illinois Department of Public Health. Jim is also sending the list to the individual county health departments. No new applications for certification have been received. Jim handed out a list of the current Certification Board Members.

Standing Committee reports

Constitution, By-Laws and Legislative - Jeff Deniger mentioned that Dale Calsyn and Cathy Swain are also on the committee.

Ethics, Certification and Membership - No report.

Finance - Bill Teater reported no new activities. He will determine his committee members. Karla mentioned that the Vice-President is usually on the Web page committee.

Newsletter - No report. The deadline to submit articles for the next newsletter is May 4th.

Nominations - Ken Anderson reported no new activities.

Public Relations and Education Committee/Special Appointee to State Advisory Commission on Private Sewage Disposal - Don Fehrenbacher discussed the upcoming Forest Soils Workshop. He suggested that ISCA allocate money for refreshments, for one of the tour stops. A motion was made and

approved to allocate \$250.00 for the Forest Soils Workshop. Don mentioned that another Advisory Commission meeting will be held in the near future.

Program - Chris Cochran reported that Sam Werner, Ron Collman and Doug Gaines are also on the committee. Chris discussed options for the Summer/Fall meeting. A tour of Fragipan soils in Crawford County was decided upon. He has determined that the Lincoln Trail State Park could be a camping location. He will also determine motel locations; a meeting room location for Friday night; and caterers for the meals. An invitation will be sent to the Indiana Soil Classifiers, for a possible joint meeting and tour. Chris also mentioned the possibility of contacting various companies such as Clements and Oakfield, to see if they would like to set up a display booth. The two day meeting will consist of a meal and speaker Friday evening, followed by a tour on Saturday with lunch on Saturday provided by ISCA. Possible meeting dates include September 14 and 15, 2001. Chris will discuss details with Doug Gaines.

Ad Hoc Committees

Historic - No report.

State Soil - Jim Hornickel reported that the State Soil Bill has been assigned to the Senate Agriculture and Conservation Committee. He also mentioned that twenty-one Senators have been added as Co-Sponsors, in addition to Chief Sponsor Duane Noland. Charles Frazee mentioned that Senator Bowles, the Senate Minority Leader, is a Co-Sponsor. Jim handed out a copy of an editorial, concerning the State Soil, that appeared in the *Bloomington Pantagraph*. If the State Soil Bill passes, a rebuttal could possibly be sent to the *Pantagraph*. Karla will discuss this with Bob McLeese. Bill Teater and Jim discussed the proceedings they observed during the House vote on the bill.

Technical Criteria (Key to Wastewater Loading Rates) - No report.

Old Business

ISCA Web page - Karla told Bill Teater to contact Scot Wegman about finding a different provider, since our web page is still not working.

New Business

Thankyou letters - Karla Hanson mentioned a suggestion by Doug Gaines to send Thank You letters to Bill Gradle for the wooden SWCS boxes handed out at the Annual Meeting; and to Tom D'Avello and Scott Wegman for the Keynote presentation at the Annual Meeting.

General Discussion - A discussion concerning curtain drains and septic systems ensued. Lester Bushue mentioned the need for consistency between Illinois and Indiana in regard to loading rate keys. Don Fehrenbacher suggested that ISCA resume workshops, with a future topic to include water tables. This would provide another chance for good public relations for ISCA.

Correspondence - Bob Tegeler mentioned the email he had received concerning the passing of Albert Klingebiel. A note will appear in the next newsletter.

The next ISCA Council Meeting will be held on June 15, 2001, at 10:00 AM, at the NRCS State Office in Champaign.

The meeting adjourned at 11:15 AM.

Respectfully submitted,

Robert Tegeler, Secretary

More Information on the State Soil

House Bill 605 will soon be signed into law by Governor George Ryan. What follows is background material on state symbols and how House Bill 605 came into being.

Every state has a number of symbols or icons that represent significant events, resources, or historical references that deserve mention. Illinois is no different. We have a State Tree: the white oak. Illinois also has a State flower, bird, mineral, insect, fish, and host of other symbols. Illinois also has a State Flag and a State Seal, created back in 1868.

The state tree and flower were designated in 1908. The State Bird became official in 1929. Illinois coined the State Slogan, "Land of Lincoln" in 1955. In 1965, Illinois unveiled the State Mineral, Flourite. Then in 1975 the Monarch Butterfly was deemed our State Insect. The State Animal and State Fish were sanctioned in 1982 and 1986, respectively.

And as recently as 1989, Big Bluestem was selected as the State Prairie Grass to help represent the "Prairie State."

It isn't hard to understand why these items were selected so long ago and honored in order to represent the special and unique character of our state. Oak trees are plentiful, beautiful, and stand the test of time. Violets, Northern Cardinals, White-Tailed Deer, Bluegill, and Big Bluestem are natural resources easily spotted on the landscape. These plants and animals are part of the history of our state, and in a sense, they become part of the history of each citizen.

Did you also know that Illinois has a State Dance, a State Song, and even a State Fossil? The State Dance is the square dance, the State Song is called "Illinois," and the State Fossil is the "Tully Monster," a soft-bodied carnivore or monster that swam around in the ocean approximately 300 million years ago.

If all Illinois citizens must pay homage to a prehistoric "monster" that played out its role some 300 million years ago, then perhaps it's not

so much of a stretch for Illinois, one of the most agriculturally based and productive states in the nation, to designate a State Soil.

"This official designation of an Illinois State Soil is long overdue," says NRCS State Conservationist Bill Gradle. "We've been supporting this initiative for more than 15 years and are delighted to see the legislation come through both the House and Senate."

Later this summer, Governor George Ryan will sign House Bill 605, which will officially declare Drummer silty clay loam the official State Soil. "Our hope is that by declaring soil as a state symbol, we can raise awareness and help people make the connection between the success and the beauty of our state and the soil resources that make it all possible," says NRCS State Soil Scientist, Bob McLeese.

"Fifteen other states have already established state soils," explains McLeese. "Because we have rich, fertile, and productive soils, it's important that Illinois recognize this resource which has linked farmers and nonfarmers to so many successes," adds McLeese.

The push for Illinois' State Soil began back in 1985 when the Illinois Soil Classifiers Association (ISCA), a non-profit group comprised of professional soil scientists, appointed a committee to nominate one soil for this prestigious title.

This might sound like a simple task, but it's not when you realize that nearly 700 different soil types have been identified in Illinois, each with unique properties and characteristics and each with its own argument for consideration as THE state soil.

Caught in the middle of a "dirty" battle, the committee first identified criteria which required that the soil be connected in some way to prairie vegetation, have high agricultural productivity, have an extensive presence on the land, be original and unique to the state, and be recognized by private landowners.

In 1987, ISCA members voted, and Drummer silty clay loam won by a 2 to 1 margin. "Although ISCA had a winner, we learned

that most other state symbols were ultimately selected by school children," says current ISCA President, Karla Hanson.

In order to involve school children and validate the chosen soil, various elections were sponsored over the next few years by organizations such as FFA, the 4H Youth Conference, and the Illinois Association of Vocational Agricultural Teachers.

Drummer silty clay loam won nearly every election.

"We feel comfortable with Drummer. It's a highly productive prairie soil and it was first mapped and classified in Ford County back in 1929, so it's been around for a long time," explains Hanson. Drummer is also well known among the farming population. "Drummer soils cover about 1.5 million acres in nearly half of Illinois' 102 counties," adds Hanson.

By 1993, Drummer was it. But the idea had to be "sold"-the concept needed a political sponsor and enough support to turn it into a bill that legislators could vote on and make into law. The ISCA went to work to publicize the need for and the value of a State Soil. Then an eager and energetic group of high school students from Monticello, IL decided to take on the state soil challenge. The students of Mindy Elvidge's Agricultural Science class, also members of the Monticello FFA Chapter, rolled up their sleeves and went to work.

For three years, these students made phone calls and contacted other Illinois FFA Chapters as well as local and state congressional representatives to garner support, enthusiasm and a better understanding of soils issues. They conducted a letter-writing campaign, wrote letters to newspaper editors, and flooded local media with facts, editorials, proposals, and information about the value and need for an increased appreciation of soil.

McLeese knew first hand what the FFA students were up against. "Getting the attention of Illinois legislative representatives was a challenge. Voting members are only allowed a certain number of bill proposals, so we knew finding a representative willing to "donate"

in the name of soil would be difficult," explains McLeese.

"Another complication was that more than half of Illinois' representatives cover urban communities in northeastern Illinois. Getting urban legislators to understand, appreciate, or value soil was a struggle," adds Hanson.

In order to appeal to urban representatives, Monticello's "rural" FFA class joined forces with Chicago High School for Agricultural Sciences' "urban" FFA. With the shared task, and a new formidable force on the urban front, the idea was headed for success. Over the long struggle, many Illinois State Representatives served as sponsors and played a role in this initiative-Julie Curry (D-Mt. Zion), Ray Poe (R-Springfield), Tom Dart (D-Chicago), and Senator Duane Noland (R-Blue Mound).

After three years of letter writing, lobbying, and testifying in front of the Illinois General Assembly, a dedicated group of high school students finally witnessed as House Bill 605 passed the Illinois House of Representatives on March 22, 2001 with a vote of 113 - 0. The group testified one last time on April 24 in front of the Senate Agriculture Committee. The bill passed the full Senate on May 9, 2001 by a 54-0 vote.

Elvidge remembers the excitement when the final votes were tallied. "The room was filled with FFA students and when the votes were in, they all cheered and went crazy!"

"We are excited to have played a key role in getting this legislation passed," adds Elvidge. "My students have worked long and hard for this. They know more about soil than I ever thought possible, they demonstrated such passion and a commitment to this mission, and they've learned a great deal about the legislative process, which will make them powerful citizens," says Elvidge. "And for my FFA Officers who are graduating seniors, this was the best graduation present they could ever have."

"This legislation is a huge milestone for the FFA students,

the Chicago Ag High School, and for anyone committed to the protection of natural resources in Illinois," says Gradle.

"By signing this bill into law, Illinois and all her citizens will better recognize how crucial soil is to our state's history, our quality of life, and our future. This is just the beginning of a new commitment to soil," adds Gradle.

"Nearly 100 years ago, our ancestors felt a responsibility to acknowledge the white oak and the violets that graced this land. By declaring a state soil, we acknowledge that without the soil as a foundation, these other resources and symbols would not even exist," says Gradle.

For more information on soils, visit NRCS' homepage at www.il.nrcs.usda.gov (Click on "INFORMATION ON" then click on SOILS)

"The wealth of Illinois is in her soil and her strength lies in its intelligent development"

Andrew S. Draper, President of the University of Illinois

Submitted by Paige Mitchell-Buck

Private Sewage Disposal Systems Installed During Calendar Year 1999.

Statewide	West Chicago	Champaign	Marion	Edwardsville	Peoria	Rockford	Septic Tank To		Aerobic Unit To		Miscellaneous
							Region			Subsurface w/o discharge	
4090	1319	292	111	288	646	1434	Gravel system				
1190	58	310	54	331	386	51	Gravelless pipe				
1209	478	253	27	105	336	10	Chamber				
382	53	14	4	2	186	123	Seepage Bed				
1325	5	244	208	308	537	23	Buried Sand Filter				
0	-	-	-	-	-	-	Recirc Sand Filter				
189	-	-	188	1	-	-	Lagoon				
123	122	-	-	-	1	-	Mound				
520	11	10	426	32	40	1	Dis. W/o disinfect				
3721	194	674	949	1189	663	52	Dis with disinfect				
295	207	5	-	31	25	27	Gravel system				
76	30	1	9	23	12	1	Gravelless pipe				
99	63	8	4	11	12	1	Chamber				
168	155	2	5	-	5	1	Buried Sand Filter				
0	-	-	-	-	-	-	Recirc Sand Filter				
0	-	-	-	-	-	-	Lagoon				
321	319	-	-	2	-	-	Mound				
5	5	-	-	-	-	-	Raised Fil Bed				
0	-	-	-	-	-	-	Peat Bio Filter				
6	-	2	-	2	2	-	Privies				
93	35	7	15	23	13	-	Holding Tanks				
13812	3054	1822	2000	2348	2864	1724	Total				

**Summary of Private Sewage Disposal Installation Top 20 Counties -
1999**

1999 Rank	1998 Rank	County	Total Systems	Change from 1998
1	1	McHenry	753	-4
2	3	Lake	557	-22
3	4	Madison	487	+11
4	2	Will	481	-159
5	8	Kane	379	+73
6	6	Winnebago	341	+32
7	5	Lasalle	321	-56
7	7	Peoria	321	+15
9	11	Sangamon	313	+33
10	14	McLean	305	+64
10	9	Tazewell	305	+1
12	10	Kankakee	253	-41
13	12	Ogle	244	-17
14	Not in top 20	St. Clair	238	+55
15	16	Whiteside	233	+15
16	15	Jefferson	227	+4
17	18	Jackson	218	+6
18	Not in top 20	DuPage	209	+73
19	20	Vermillion	208	+9
20	Not in top 20	JoDaviess	206	+69

Submitted by Don Fehrenbacher

Annual Summer/Fall Meeting
September 14-15, 2001

(Check all that apply)

- I will be attending the ISCA Annual Summer/Fall Meeting at the Lincoln Trail State Park near Marshall, Illinois on September 14, 2001. I am enclosing \$_____.00 for ____ dinner(s) at a cost of \$10/dinner. (Due by September 7, 2001)

(circle one)

- I plan on attending the Soils Tour on Saturday, September 15. I (have -- have not) invited ____ guests (non-members) to accompany me on this tour. *(needed for lunch and transportation estimate)*
- I plan on camping at the State Park. *(needed for Park reservation)*
- I plan on staying at a motel. (Peak's Motor Inn, 107 E. Tretz Drive, Marshall, IL 62441; 1-800-646-7325)
- I do not plan on staying over but will attend 1 or more sessions.
- I will not be able to make the meeting this year. Please let me know how it went.

Member's Name _____

(Please Print)

Make checks payable to Chris Cochran, ISCA Program Chair (do not send cash, your cashed check is your receipt)

Mail To: Chris Cochran, ISCA Program Chair
PO Box 1035
Charleston, IL 61920-7035



NEWSLETTER

Fall 2001

ISCA Spring Meeting

It's not even the New Year and you're already talking of Spring??? Yep! Mark your calendars. Our spring meeting will be held March 23, 2002 in Champaign, Illinois. The meeting will be held in the Colonial Room of the Illini Student Union at the University of Illinois in Urbana. The luncheon will begin at 11:00 am starting with a short business meeting followed by lunch, guest speaker, Dave Grimley from ISGS, and a tour of the new Agriculture, Consumer and Environmental Sciences (ACES) Library at the University of Illinois.

The luncheon will be buffet style. The entrée is *roast rib eye of beef or stuffed pork chop*. The accompaniments include *twice baked potato casserole, southern green beans, bib lettuce salad, sourdough rolls, Dutch apple pie, plus beverages*.

Cost of the meeting/luncheon including tax will be \$15.25 per person. Friends and family members are welcome. Make your checks payable to ISCA and send them no later than February 15, 2002 to:

Chris Cochran
1515 Casselbury Lane
Champaign, IL 61822-9275

In the meantime, mark your calendars for this exciting event. For more information contact Chris Cochran at 217-581-7873 or chris.cochran@il.usda.gov.

In Memory of Emil Kubalek

Emil Kubalek passed away at his home on September 26th, 2001. Emil was 68. As many of you know, Emil enjoyed a 33 year career with SCS, retiring as District Conservationist in Moline in 1987. Emil was a US Army veteran and reached the rank of first lieutenant. He also held BS and MS degrees from the University of Illinois. Memorials can be made to the American Cancer Society or the University of Illinois Alumni Association.

Emil's address:

Geraldine Kubalek
3408 56th St Place
Moline, IL 61265

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Editors Note

Downloading GIS Tools and Data

There are several sites on the net where GIS Tools and Data can be downloaded for free. This information can be used to improve the quality of reports you give to your customers.

Tools

ESRI provides some free programs that can be used to view GIS data. Arc Explorer is one of those programs. Arc Explorer can be used to display orthophotography and to query the accompanying GIS Data. Arc explorer is a lightweight GIS data viewer. Arc View and Arc Info can be purchased for those who need more than just viewing and printing data and images.

Step 1.

Log on to www.esri.com. In the left hand blue column, you will see the word free near the bottom. Simply click onto free resources under the word free. In the software column, click on Arc Explorer. You can click on the overview of ARC Explorer 2 to learn more about it. If you are interested then you may proceed to download Arc Explorer 2. You will be asked several questions about your interest during the downloading process and you will be asked to register with ESRI. The download usually takes from 30 to 45 minutes. I would save ARC Explorer to your Desktop. You should also download the Arc Explorers users guide to help guide you through the process of viewing and querying data. Arc Explorer is 12.8MB and the users guide is 1.2 MB.

Step 2.

Once Arc Explorer has been downloaded you will need to install it by following the steps in the asetup.exe. Now you are ready to view, query and print data.

Data

The Illinois Natural Resources Geospatial Database Clearing House (located at www.isgs.uiuc.edu/nsdihome) has the following free data that can be downloaded:

Statewide data on surficial geology, bedrock geology, water resources, natural history, infrastructure, base data and PLSS (Public Land Survey System).

County data on archeology, census, floodzones, municipal boundaries, NWI, rails, roads, streams and wells.

DRG data (Topo maps) at a scale of 1:24000, 1:100,000 or 1:250,000.

DOQQ data (Orthophotographs) of most of the state. These images are compressed Mr. Sid images so they tend to get fuzzy at scales larger than 1:1000. You can read more about Mr. Sid Images at www.lizardtech.com/products/mrsid.html.

Des Plaines River Watershed Orthophotography can also be downloaded. These images have a 1x1 foot resolution at a 1:2400 scale.

Before downloading any data, new folders need to be set up on your hard drive to store the data. Click on Start, Programs, then Explorer or Windows NT Explorer. Click on the drive you wish to store data on, for instance C, then click file, new, folder. Now on the right hand side of your window you will have a folder entitled new folder. You can rename the folder by right clicking with your mouse on the folder or by clicking on the word new folder. I would recommend that you name the file GIS. Now you are ready to download orthos and other data that might be helpful for your next project.

21st Annual Central States Forest-Soils Workshop

The Central States Forest-Soils workshop is an annual event that rotates among Illinois, Missouri, Indiana, Ohio, and Kentucky. This year the three day workshop was held in northeastern and east-central Illinois in October and included stops in Will, Kankakee, and Iroquois counties. The Holiday Inn in Matteson, Illinois in south Cook County was the headquarters for the event. About 70 people were in attendance, which included soil scientists, foresters, and educators from six states. Illinois, of course, was well represented. Other states sending representatives were Ohio, Missouri, Indiana, Tennessee, and Wisconsin.

The conference this year contrasted forest soils with soils developed under prairie vegetation. It also highlighted and contrasted the soils and vegetation of wetlands versus the soils and vegetation of the sandy deposits resulting from the Kankakee Torrent.

On Tuesday evening the conference started with a presentation from John "Doc" Ebinger who gave an overview of the geologic and vegetative history of the region. Fran Harty, IDNR Heritage Biologist, and Pat Thrasher from the USFS each gave an overview of some of the field stops. The field trip began on Wednesday morning under a cloud of rain (to the dismay of the workshop planners, in particular). Fortunately, the rain quit about the time the busses reached the first stop and the weather was great for the rest of the event.

The first stop was at the Momence Wetlands. At 2,500 acres, this area is the last natural vestige of the pre-settlement, million-acre Kankakee Grand Marsh that extended from South Bend, IN to Momence, IL. This stop featured black oak sand forests and floodplain forests comprised of pin oak, river birch, and swamp white oak. Special features included the northernmost location for pumpkin ash, swamp cottonwood, American snowbell, and climbing hempweed in Illinois. The soils featured were the Chelsea and Gilford series.

The tour featured a nice box lunch, in the field, and then stops in the afternoon at the Iroquois State Fish and Wildlife Area. At four square miles in size, this area is one of the finest and

most expansive complexes of high quality sedge meadow, wet sand prairie, black oak sand savanna, and pin oak flatwoods in Illinois. There are ten biotic communities and 15 state-listed species recognized at the site. This area is considered to be among the top six most important areas in Illinois for invertebrates associated with prairies and sedge meadows. Soils included at this stop were the Oakville, Watseka, and Granby, series. That evening we had a tasty dinner and we were treated with a visit by Dudley Dirtdauber. Dudley provided great entertainment and was our auctioneer for the evening.

On Thursday morning the group headed to the Midewin National Tallgrass Prairie (not a typical site for a forest soils workshop). Established in 1996, the Midewin is America's first National Tallgrass Prairie. Midewin was once the Joliet Arsenal that manufactured ordinance for the U.S. Army during World War II through the Vietnam War. The Army is gradually relinquishing control to the Forest Service. The prairie covers more than 30 square miles and is the largest attempt at a prairie restoration in the country. Midewin contains dolomitic prairies, wetlands, and oak-hickory woodlands. We visited two sites; Starr Grove and Grant Creek. At Starr Grove, we visited a pre-settlement oak grove (although it was somewhat degraded). This is an isolated island grove on Ozaukee (formerly Morley) soils, surrounded by prairie soils (Elliott series). At Grant Creek, we saw the effects of channel relocation. The channelization went through Drummer soils (of course we had to show our state soil!) and we discussed the process of soil formation and vegetative changes (trees were well established) in a riparian environment. The workshop ended by noon on Thursday.

ISCA was one of the co-sponsors of the workshop, along with NRCS, IDNR, USFS, and SWCD's of Will-South Cook and Kankakee counties. Thanks to all the ISCA members who conducted and planned the workshop. Special thanks to Karla Hanson and Jeff Deniger for digging the soil pits with the Aurora MLRA backhoe as well as other support they provided. Other ISCA members who participated were:
(continued on page 4)

Bob McLeese, Don Fehrenbacher, Mike Kiefer, Ken Gotsch, Pat Kelsey, Dale Calsyn, and Mark Bramstedt. (Forgive me if I left anyone out!)

Ohio has volunteered to host the 22nd annual workshop. Watch your mail for the announcement.



Ken Gotsch, Bryan Fitch, Bob Tegeler, and Les Bushue investigate Watsoka Loamy sand for the Forest Soils Workshop.

Summer/Fall Meeting

On September 14th 18 of our membership along with family and friends met at Richard's Farm Restaurant in Casey, Illinois for an evening of fellowship, feasting and a very interesting presentation on the settlement of the Illinois prairie. Melody Arnold from the Macon County Conservation District gave the finely researched talk.

Our raffle winners for the event were Catherine Swain – Soils and Men, 1938 USDA Yearbook of Agriculture and Neil Molstad – Land, 1958 USDA Yearbook of Agriculture. These prized books were courtesy of Ron Collman.

A tour of fragipan soils in Crawford, Lawrence and Richland counties followed on Saturday. Several students from the University of Illinois along with 20 of our membership attended the discussion packed tour.

Chris Cochran, Doug Gaines, Ken Gotsch, Dana Grantham, Karla Hanson and Sam Werner along with family and friends rounded out their meeting experience by camping at the Lincoln Trail State Park.

Submitted by Chris Cochran



Sam Werner discusses fragipans and Bt/E horizons during the fall tour.

Illinois Conservation Expo

ISCA and NRCS sponsored an in-ground soils exhibit at the Illinois Conservation Expo which took place August 28-30 in East Peoria at Illinois Central College (ICC) and the adjacent Blye/Keil Farm located in Tazewell County near East Peoria.

More than 3000 people came to view innovative conservation practices and exhibits on property that is under development as both residential agricultural use.

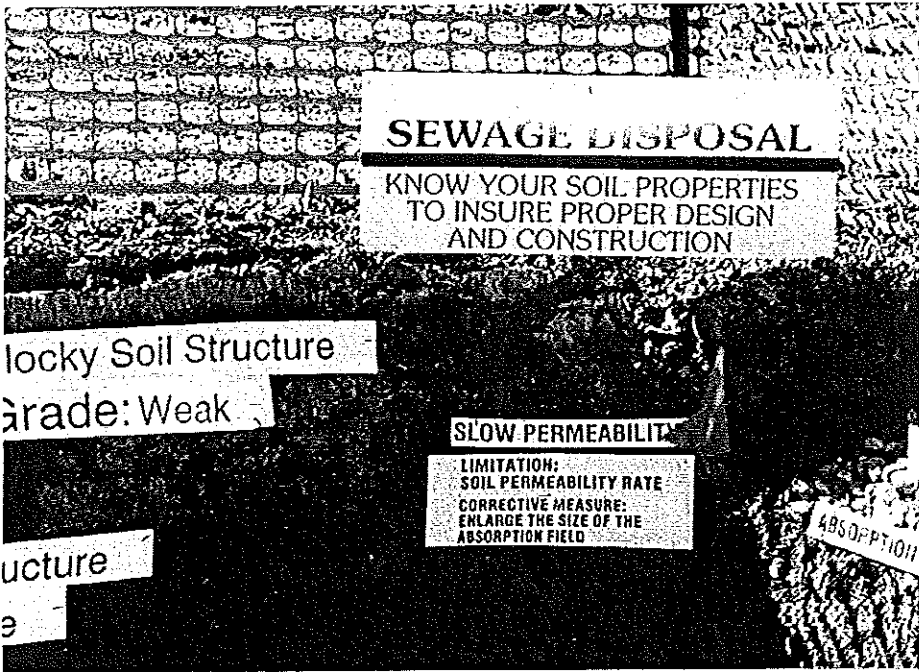
The soils exhibit featured our state soil and contained exhibits showing how soil properties effect suitability for sewage disposal, building sites, dam construction, and agriculture uses. Geology, landscapes, soil profile descriptions, and on-site soil analysis were also illustrated. In addition, at 11:00 AM each day a demonstration was given in the pit using the loading rate charts contained in the state code to arrive at a design group based on soil properties seen in the pit.

A workshop for contractors was held the morning prior to the show where about 30 ILICA members heard Doug Ebelher, IL Dept. of Public Health, Steven Zwicker, NRCS, and Sanitarians from Peoria, Tazwell, and Woodford counties speak on the use of soils information as an option contained in the state code. Good dicussions were heard from the numerous questions that resulted. There was an overwhelming sense that contractors are using on-site soils information more and more and that the health departments are encouraging them to do so.

Many favorable comments were heard from those viewing the in-ground soils display. Those who contributed their time and effort to the successful completion of this exhibit were greatly appreciated: Jerry Berning, Mark Bramstedt, Paige Buck, Steve Elmer, Chuck Frazee, Carla Hanson, Steve Higgins, Jim Hornickel, Roy Mahnesmith, Bob McLeese, Wiley Scott, Steve Suhl, Cathy Swain, Bill Teater, Roger Windhorn, and Steve Zwicker. A special thanks goes to Wayne Litwiller, ILICA, and his staff for the extra attention to detail they gave in digging the pit and to Charlie Schaffer with Agri-Drain for the use of their water control valve.



Students touring the ISCA exhibit at the Illinois Conservation Expo.



Some of the information from the soil pit at the Illinois Conservation Expo.

Illinois Cooperative Soil Survey Annual Planning Conference, September 20, 2001

Meeting Minutes

- ❖ NRCS State Conservationist Bill Gradle convened the meeting at 9:30 a.m. and welcomed everyone to NRCS's new state office at 2118 West Park Court, Champaign, Illinois 61821.
- ❖ 24 participants were in attendance (see attached sign-in sheet).
- ❖ Status Reports by Cooperators
 - U of I Ag Experiment Station and CES by Ken Olson
 - Olson discussed Bulletins 810 and 811. The updated Soil Productivity ratings for Illinois soils. The bulletins are available by calling 1-800-345-6087 or visiting www.nres.uiuc.edu/soilproductivity. Olson also mentioned some of the other projects he is involved with—
 - Conservation tillage work in southern Illinois
 - Fly Ash/Erosion study at Cahokia Mounds
 - Soil Taxonomy/Soil Erosion issue
 - IDA by Terry Donohue
 - IDA has budgeted \$423,800 for FY 02 and FY 03 for soil survey activities. They have also allocated \$45,000 for grants to SWCD's for GIS activities.
 - 15 SWCD's are eligible to receive up to \$3000 for GIS hardware, software, and training.

 - IDA's Watershed Park opened in August during the state fair. 25,000 people went through the 13 educational stations during the Fair. The Park will be open by appointment throughout the year.
 - ISGS
 - No report.
 - IDOT by John Washburn and Riyad Wahab
 - Washburn discussed IDOT's agreement with NRCS to deliver digital soil survey data for priority counties. Wahab expressed IDOT's willingness to process engineering samples if needed by soil survey staff.
 - AISWCD
 - No report.
 - USFS
 - No report.
 - ISCA by Jim Hornickel
 - Hornickel reported on some of the activities that ISCA has been involved in the past year, including--
(continued on page 9)

1. State Soil Effort. Governor George Ryan signed legislation on August 2 designating Drummer silty clay loam as Illinois' official state soil. ISCA initiated the effort in 1985.
2. ISCA's website is up and running at www.illinoissoils.org.
3. ISCA is represented on IDPH's State Advisory Committee for Private Sewage Disposal.
4. ISCA participated in the 2001 Conservation Expo in August by hosting a soils exhibit/pit.
5. Don Fehrenbacher is the ISCA representative. ISCA currently has 100 members. 45 members are certified as Professional Soil Classifiers.

- NRCS by Bob McLeese

McLeese reported on FY 01 accomplishments and FY 02 goals. Fifteen counties now have a SSURGO certified database (SoilView is available for 6 of these). Digitizing is in progress in 11 counties and map compilation work is ongoing in 7 counties. Cooperative agreements to update and digitize the soil survey have been signed in 31 additional counties.

20 more counties should be SSURGO certified in FY 02.

Go to www.il.nrcs.usda.gov for more information.

- ❖ Other Reports

- MO 10
No report.
- MO11 by Asghar Chowdhery and Gary Struben
Chowdhery and Struben discussed Illinois' soil correlation workload and the Southern 7's soil temperature study and Charleston MLRA's fragipan study.
- VERIS 3100 Update by Roger Windhorn
Windhorn updated the participants on the use of the VERIS 3100 for special projects in Illinois, Iowa, and Ohio.
- State Soil update by Steven Shiley, Amanda Hager and Bridget McLeese
Shirley, Hayes, and McLeese, Monticello High School FFA members reported on their efforts to secure legislation for a state soil. HB 605 was introduced by Rep Tom Dart in January. It passed the Illinois House and Senate and was signed into law by Governor George Ryan on August 2, 2001.
(continued on page 10)

- SoilView by Tom D’Avello

D’Avello demonstrated the Champaign County SoilView.

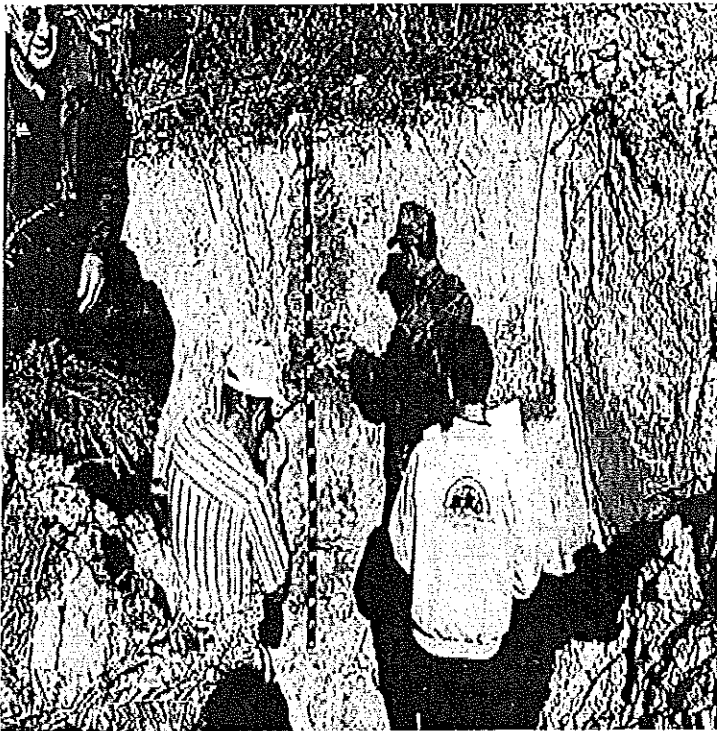
- ❖ Discussion

Dean Spindler, IDNR, spoke of the need to evaluate the mined land areas of Illinois. He estimates that there are 50,000 acres of reclaimed mined land that are in need of “fine tuning”, because the soils are mapped, do not fit existing soil series.

Sam Indorante, Project Leader in Carbondale is chairing a Mine land Steering Committee. They are to report to the State Soil Scientist by January 1, 2002.

- ❖ The meeting adjourned at 12 Noon.

- ❖ Note! 2002 meeting is set for Thursday, September 19, 2002.



ISCA members investigate Hosmer silt loam during the fall meeting.

**MINUTES
ISCA COUNCIL MEETING
JUNE 15, 2001
NRCS STATE OFFICE, CHAMPAIGN, IL**

Present:

Karla Hanson, President
Lester Bushue, President-Elect
Bill Teater, Vice-President
Charles Frazee, Treasurer
Bob Tegeler, Secretary
Gerald Berning, Chairperson, Certification Board
Mark Bramstedt, Chairperson, Ethics, Certification, and Membership Committee
Chris Cochran, Chairperson, Program Committee

The Council Meeting was called to order by President Karla Hanson at 10:15 AM.

Secretary's Report - Bob Tegeler. The minutes were approved as written. Bob mentioned a correction to the March, 2001 Council Meeting Minutes, and a correction to the March 31, 2001 Annual Meeting Minutes. Edited copies of these minutes were submitted to President Karla Hanson and Newsletter Editor Matt McCauley. Bob mentioned that he sent ISCA Membership lists to Matt McCauley and Charles Frazee. He suggested that upcoming newsletters contain a note reminding ISCA Members to keep ISCA informed of address changes. Karla will discuss this with Matt McCauley.

Treasurer's Report - Charles Frazee. The treasurer's report showed a balance of \$11870.78, as of June 14, 2001. The Treasurer's report was approved as written.

Certification Board - Gerald Berning. No new activities to date. The board is considering policy regarding recertification. Nothing definite at this time.

Standing Committee reports

Constitution, By-Laws and Legislative - No report.

Ethics, Certification and Membership - Mark Bramstedt. His committee has not received any membership applications for consideration. Mark mentioned that Mark Stelford and Gloria Westphal are also serving on the committee.

Finance - Bill Teater. No new activities.

Newsletter - No report.

Nominations - No report.

(continued on page 12)

Public Relations and Education Committee/Special Appointee to State Advisory Commission on Private Sewage Disposal - No report.

Program - Chris Cochran. Chris handed out information regarding the upcoming Summer/Fall meeting scheduled for September 14 and 15, 2001. This information will be sent to ISCA Members in the near future. Karla Hanson will contact Matt McCauley about the possibility of placing the information in the next newsletter.

Ad Hoc Committees

Historic - No report.

State Soil - Karla Hanson reported that the State Soil Bill could be signed by Governor Ryan during the 2001 Illinois State Fair. Karla mentioned that Bob McLeese requested \$200.00 from ISCA, for the purchase of 100 wooden monolith trays. These trays will contain profiles of Drummer, and will be used for educational purposes at schools and the state fair. A motion was made and approved to provide \$200.00 for the monolith trays. Karla also mentioned that Bob McLeese requested \$1300.00, from ISCA, for 20,000 bookmarks that explain Drummer as the State Soil. A motion to allocate \$1300.00 for bookmarks was made and approved. It is possible that the Natural Resources Conservation Service could reimburse ISCA some of the \$1300.00, at a later date. The bookmarks will include the ISCA logo.

Technical Criteria (Key to Wastewater Loading Rates) - No report. (continued on page 11)

Old Business

ISCA Web page - Bill Teater reported that he had contacted a web provider, from Morton IL, that charges \$22.00 per month for 10 megabytes of space. Bill also mentioned that his son would be willing to set up the web page at a cost of \$10.00 per hour. It is estimated that it will take approximately 50 hours to set up the web page. A motion was made and approved to have Jake Teater get the web page established.

New Business

Central Forest Soils Workshop - Mark Bramstedt reported that the workshop will be October 9,10, and 11, 2001, at the Holiday Inn in Matteson, Illinois. Mark discussed tour sites and other agenda items. Tour stops will be selected in June and July. Mark will contact Tom Ward, NRCS Agroforester, about the possibility of putting workshop information in an upcoming ISCA Newsletter.

ILICA Show - Charles Frazee inquired about the response to a request for volunteers to work at the show. Steve Zwicker is coordinating the effort for the soil pit, and the work schedule during the show.

The next ISCA Council Meeting will be held on September 14, 2001, at 6:00 PM, prior to the summer meeting at the Lincoln Trail State Park, near Marshall, IL

The meeting adjourned at 11:30 AM.

Respectfully submitted,

Robert Tegeler, Secretary

**USING MS TO DELINEATE HYDRIC SOILS IN ILLINOIS:
EVIDENCE FOR DISSOLUTION OF MAGNETIC PARTICLES**

David Grimley and Nancy Arruda, Illinois State Geological Survey, 615 E. Peabody Dr., Champaign, IL 61820, (dgrimley@uiuc.edu, arruda@uiuc.edu)

Hydric soil identification has become increasingly important for wetland conservation and restoration. Field indicators, used for this purpose, can be somewhat subjective or difficult to identify in some soil types. Magnetite is destroyed under anaerobic conditions and neoformed ultra-fine ferrimagnetic minerals are preferentially preserved under aerobic conditions. Thus, magnetic susceptibility (MS) is higher in well-drained areas than in hydric areas. MS may therefore be a more objective method for identifying hydric soils than those currently used. We examined several sites with different parent materials in central, western, and southern Illinois. At each site, MS readings were taken every 30 feet on transects or grids across transitional hydric boundaries of consistent parent material. MS readings were calibrated with traditional field indicators to obtain a critical MS value for identifying hydric soils. Early data suggests that this value is 30×10^{-5} SI, in sites with loessal parent material, and 20×10^{-5} SI at a site southern Illinois with alluvial parent material. Sandy soils in Illinois may have a critical value as high as 40×10^{-5} SI.

In laboratory tests, frequency dependent MS ranged from 0 to 10 %. Further analyses on grain size fractions of soils show the contribution of clay and fine silt ($< 8 \mu\text{m}$) to MS ranges from 25 – 70 %. In preliminary examination by scanning electron microscopy (SEM), fly ash (spherical industrial particulates) were found to comprise 7 to 30% of the $> 8 \mu\text{m}$ strongly magnetic particles. Samples with lower MS readings contain less magnetite and show more dissolution of fly ash and natural magnetite when viewed under SEM. The alteration of fly ash implies that significant magnetite alteration can occur in less than 150 years.

MS values include proportions of their signal from neoformed magnetite and silt-sized detrital magnetite with a secondary contribution from industrial fly ash. Both the formation and dissolution of these magnetic particles affect MS under hydric and non-hydric soil conditions.