



# NEWSLETTER

Winter 2004

## ISCA ANNUAL MEETING

March 6, 2004

Rend Lake Resort (I-57, Exit 77 south of Mt. Vernon)

From Interstate 57 go west on Route 154 (Exit 77). Look for sign that directs you to Wayne Fitzgerald State Park and Rend Lake Resort and Conference Center. Go north about 3 miles. You will see the marina complex and conference center on your left.

Room Reservations – (618)- 629-2211. A block of rooms for the night of the 5th (\$60.00 Single; \$69.00 double) is being held under Block #4477. Get your reservations in early.

10:45 to 11:30 AM Registration

11:30 to 12:30 PM Meal

The meal is a BBQ Buffet consisting of BBQ pork steaks and fried chicken, au gratin potatoes, baked beans, cole slaw, potato salad, crudité's (Editors note: *raw vegetables cut into bite-sized strips, I had to look this up*) with dip and warm bread. Coffee, tea and a dessert are also included.

Cost of meal is \$12.50

Send reservations and check or call in reservations to:

Chuck Frazee, Treasurer ISCA  
65 Gaffney Road.  
Divernon, IL 62530

217.628.3518

Please get you reservation in early. We need a headcount by March 1<sup>st</sup>. We are obligated for a minimum of 25 people.

12:30 to 1:30 Meeting

1:30 to 2:30 Presentation by Dan Rooney (EarthIT)

## Soil Information System (SIS)

Dan Rooney, EarthIT, Madison, WI  
rooney@EarthIT.com

### Summary

Our NRCS project is going into its third year. In 2002 and 2003 we worked with the IL-NRCS in collaboration with Bob McLeese and Jim Doolittle. The objective of our project is to develop a soil mapping methodology for high intensity applications (precision ag for example). The methodology can also be used for construction site assessment, watershed scale mapping, archaeological surveys or wetland delineations. The study involves deploying the Soil Information System to the field in conjunction with a team of NRCS field personnel with the common goal of performing high detail sensor correlations. The NRCS crew determines the locations of representative profiles using a high resolution electromagnetic survey draped over a digital elevation model with centimeter level 3-D relative accuracy. This helps to avoid selecting an inclusion or anomalous soil in an area on the landscape that is otherwise representative of a particular soil profile given topography and expert knowledge alone. Earth Information Technologies then goes to the selected locations and performs vertical observations with a penetrometer that estimates soil compaction, texture, color, moisture, resistivity, and in-situ digital imagery (video). The pit is then excavated in such a way that the soil can be described that was in direct contact with the sensors. A database is being developed that takes a "typical" soil of a certain type and gives it a digital signature. It will be rare that any typical digital signature will exactly match locations taken on the same field let alone across multiple counties. However, it will be possible to quantify which soil a given observation is most similar too thus creating a tangible, standard method for creating 3-D, digital soil maps. In 2004 we have expanded our contract with the NRCS to include work in Iowa and Wisconsin as well as Illinois.

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## President's Column

February 1, 2004

A very frigid greetings from Northern Illinois! As I write my last "President's Column" I reflect on the great year we've had at ISCA. It sure has gone by fast. I appreciate the opportunity you have given me to serve as one of your officers and I would recommend others consider experiencing this as well. The nominations committee has assembled a great slate of candidates for us to choose from this year. Please take the time to mail in your vote if you are not planning on attending the annual meeting. Read through Sam's invitation in this newsletter and make sure to RSVP for the annual meeting ASAP! Unfortunately, it ends up that I will not be able to join you at the meeting since I will be snorkeling in the Galapagos Islands. Rest assured that I will be thinking of you on March 6<sup>th</sup>, and I leave you in the very capable hands of our Executive Committee. The Program Committee has assembled an excellent meeting – Dan Rooney from EarthIT will be sharing some of his company's efforts to map various soil attributes using advanced technology.

Opportunities to be involved in promoting and advancing the soil sciences abound. The main limitation is the degree of your involvement. In January I volunteered to participate in the "Scientist at the Field" program with Jesse Kurylo. We answered a wide variety of questions about soil from a wide range of individuals. Although the attendance at the Field Museum in Chicago was low that day, I particularly enjoyed Jesse's rapport with the groups of children that stopped by. You could tell that she enjoys stimulating a child to think about the soils around them. Please contact Mark Bramstedt if you have an interest in learning about this volunteer program.

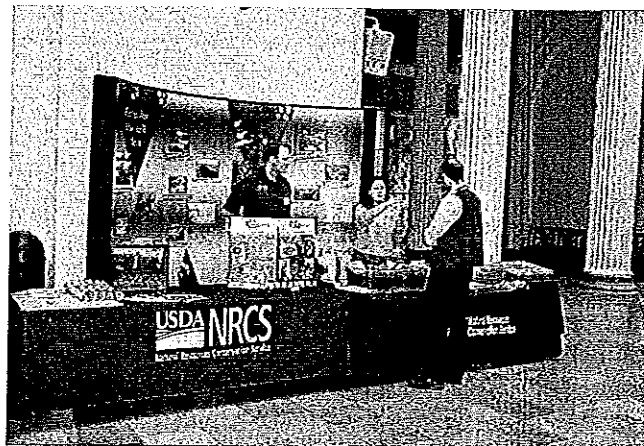
I recently met with Mike Konen from Northern Illinois University to discuss a fund raising activity for a soils exhibit at the Smithsonian Museum in Washington D.C. Mike will be sharing some of the details in the newsletter. We're confident that the membership of ISCA will help to identify a wide variety of businesses in agriculture that might be willing to pledge a donation for the Illinois portion of the exhibit. This is a good program to raise our nation's "soil awareness."

As one more housekeeping item, please send in your annual ISCA dues if you haven't already. Also remember that the ISCA takes care of your subscription to Soil Survey Horizons. So don't double pay for it if you haven't sent in your Soil Science Society of America dues. I look forward to seeing each of you somewhere down the road (or in a soil pit!) Stay warm!

Regards,

Mark

Mark Stelford  
815.761.0220  
mark.stelford@earthagconsulting.com



Jessie Kurylo and ISCA President Mark Stelford at the Field Museum

### Check out the ISCA Web Page

If you haven't been to the ISCA web site in a while, check it out at [www.illinoissoils.org](http://www.illinoissoils.org). Tom D'Avello and Mark Bramstedt have updated the ISCA web page. They have updated the information, added a place for announcements, changed the interactive map of soil consultants, added both current and past Newsletters, and added new Links. Personal information about members & consultants and information about ISCA officers and committees will be updated after the 2004 Annual Meeting. Watch for other changes with the Membership Handbook and applications for membership in the near future. If you have any suggestions about the content of the web page, contact a member of the Executive Council.

## NATIVE VEGETATION WORKSHOP

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THE USE OF NATIVE VEGETATION FOR EROSION CONTROL, WATER QUALITY IMPROVEMENT, AND WILDLIFE HABITAT ENHANCEMENT HAS INCREASED RAPIDLY IN RECENT YEARS. IN MANY CASES, THE EFFECTS OF SOIL COMPACTION, WEED PRESSURE, AND DISTURBED SITE CONDITIONS CREATE CHALLENGES FOR SUCCESSFUL ESTABLISHMENT OF NATIVE SPECIES. THIS WORKSHOP WILL DISCUSS PROBLEMS ENCOUNTERED IN THE FIELD, AND SHARE SOME SOLUTIONS THAT WE HAVE DISCOVERED THROUGH THE YEARS. WORKSHOP PARTICIPANTS WILL TAKE AWAY FIELD-LEVEL TECHNIQUES FOR SOIL AMENDMENT AND COMPACTION CONTROL, AN UNDERSTANDING OF NATIVE SEEDING METHODS, EXAMPLES OF WHAT METHODS HAVE AND HAVE NOT BEEN EFFECTIVE, AND A REGULATORY OVERVIEW OF NATIVE VEGETATION USE. AUDIENCE PARTICIPATION WILL BE ENCOURAGED IN ORDER TO HELP DEVELOP NEW SOLUTIONS FOR THESE ISSUES.

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### AGENDA

- 8:00 – 8:30 a.m. Registration
- 8:30 – 8:45 a.m. Welcome and Introduction
- 8:45 – 9:45 a.m. Large-Scale Wetland Construction and Grading Techniques  
Jay Ellis, Operations Manager, Ryan Incorporated Central
- 9:45 – 10:00 a.m. Break (coffee, soda, and baked goods provided)
- 10:00 – 11:00 a.m. Characteristics of Chicago Biosolids and Their Use as a Conditioner to Enhance Soil Restoration  
Thomas Granato, Ph.D., Head, Biosolids Utilization and Soil Science Section, Metropolitan Water Reclamation District of Greater Chicago
- 11:00 – Noon Greenhouse Study of the Effectiveness of Soil Amendments on Germination and Growth of Native Seed for Restoration at Indian Ridge Marsh  
Warren Buchanan, President, Buchanan Consulting, Inc.
- Noon – 1:00 p.m. Lunch (on your own)
- 1:00 – 2:00 p.m. Native Species Seeding Techniques and Trouble Spots – An Overview  
Todd Soukup, President, Applied Land Analysis, Inc.
- 2:00 – 3:00 p.m. The “Scoop” on Soils for Wetland Mitigation – Project Examples and Reflections on Soil Conditions and Handling Techniques  
Julianne Janisch, Senior Ecologist, V3 Consultants
- 3:00 – 3:15 p.m. Break
- 3:15 – 4:00 p.m. The Regulatory Perspective on Native Vegetation Use and Establishment Clayton Heffter, Wetland Supervisor, DuPage County DEC and Jaimee Hammitt, Regulatory Project Manager, U.S. Army Corps of Engineers, Chicago District

(continued from page 3)

Please see the enclosed sheet for directions and registration information. Questions? Contact Todd Soukup at 815-439-6774 or via email at [TASoukup@earthlink.net](mailto:TASoukup@earthlink.net)

## **REGISTRATION FORM (please print)**

Name: \_\_\_\_\_

Employer: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_ Daytime telephone #: \_\_\_\_\_

Workshop fee is \$25.00 per person. Please detach registration form and send it with a check or money order (payable to Illinois Soil Classifiers Association) to:

Todd Soukup  
P.O. Box 651  
Plainfield, IL 60544

Please respond by February 10, 2004 in order to reserve your spot for the workshop. Questions? Contact Todd Soukup at 815-439-6774 or [TASoukup@earthlink.net](mailto:TASoukup@earthlink.net)

The workshop will be held in Room 3-500B of the Jack T. Knuepfer Administration Building at the DuPage County Governmental Complex in Wheaton (see building location on other attachment). Signs will be posted at each entrance to the building directing you to the workshop. The governmental complex lies along County Farm Road just south of the Chicago and Northwestern Railroad tracks. County Farm Road is a major north-south road that lies approximately 2.5 miles east of Illinois Route 59 and 5.5 miles west of Interstate 355 in central DuPage County. The complex is about one mile north of Illinois Route 38 and 2.5 miles south of Illinois Route 64 on County Farm Road. Please call if you would like more detailed directions.

### **Farm Progress Show**

The 50th anniversary of the 2003 Farm Progress Show was held in Henning Illinois this past September. The 3 day affair turned into only a single day of showing as rains moved into the area (or as it seems, only onto the show site itself!) cancelling the second and last day of the show. Irregardless, The ISCA/NRCS soils exhibit was a huge success, even if for only a single first day. This was the first year implementing a novel idea for the soils exhibit. NRCS soil scientists from around the state collected some 30 soil profiles to display along a straw maze which led into and out of a soils pit. The soil monoliths were profiled alongside a laminated, 3-D block diagram utilizing actual orthophoto imagery. Not too often does the public have the opportunity to see dozens of soils from around the state. Surely, this must have been... "The Amazing Soils"! A personal note of thanks to everyone who helped to make this exhibit one of the finest displays ever! Also, a special thanks to ISCA and NRCS for their financial support!

## Fall Meeting

The ISCA fall meeting took place on October 18<sup>th</sup> in northeastern Illinois. Twenty-three individuals, including ISCA members and NIU staff and students, attended. The tour focused on several of the diamictons that are found in the area. The tour started off in the morning at Bliss Woods Forest Preserve in Kane County with coffee and bagels and a general overview of the day's stops. Sites were selected by Bruce Putman with two sites located in Kane County and one in Kendall County. Information was provided for each site, which included the geology and the chemical and physical properties of the diamictons. Bruce Putman and Ted McCannon, a septic designer, also provided insight on septic loading rates and designs and local county health codes. A lunch was catered at the Ted McCannon residence. A council meeting was held following the tour.

## 2004 Election of officers

**Ann M. Mason** in 1993 graduated from the University of New Hampshire, with a B.S. in Soil Science and Associates in Arts. She began her career as a private consultant, however went on to work for the government but resigned to then again pursue working in the private sector. In 2002, Ann started her own business called Strata Environmental Inc. in Lombard, IL. Ann has training and experience with the NRCS mapping protocol, as well with wetlands. Ann is ARCPAC certified as a Soil Scientist and Soil Classifier and a Registered Indiana Soil Scientist. She is also a Certified Wetland Scientist in the Illinois Counties of Lake and Kane. Ann is also the Public Sector Representative for the Association of Women Soil Scientists, AWSS since 2000.

**Bruce Putman** is a private consultant working in the northern part of Illinois since 1988. He began his career with the NRCS as a soil scientist in 1980 in western Illinois and worked in both northern and central Illinois during his employment with the NRCS. Bruce earned his B.S. and M.S. degrees in soil science from the University of Illinois at Urbana-Champaign. He is a Certified Professional Soil Classifier with both ARCPACS and ISCA. Bruce has been actively involved in ISCA serving on various committees and as President. He resides in Woodstock, Illinois with his wife Susan and their two children.

### For Vice President

**Bill Kreznor** is a self-employed consultant operating in northern Illinois since 1987. He earned a B.S. degree in Forest Management with a minor in Soil Science at UW-Stevens Point, and a M.S. degree in Agronomy at the University of Illinois. Bill has worked as a county soil scientist on the Iroquois County soil survey, and as a USDA soil scientist in Randolph, Jasper, and Edgar counties. Bill has been a member of ISCA since 1978, and earned certification in 1981. He has previously served as ISCA President and Vice President, has chaired various ISCA committees, and served on the Certification Board. Bill and his family reside in Woodstock.

**Scott Wegman** has a B.S. in Soil Science from the University of Illinois and an M.S. in Geology from Northern Illinois University. After college, he worked for the Pike, Tazewell and Woodford County soil surveys. He went from the soil survey to the Lake County Health Department where he worked as a soil scientist in their on-site waste department. After that, he took the plunge into the private sector, working as a soil scientist for Environmental S/E, an ecological and environmental engineering firm in the Chicago suburbs. He currently works for Klingner & Associates, P.C. in Quincy as a GIS/Water Resources Specialist and still manages to get out and do on-site soil evaluations.

## PRELIMINARY ANNOUNCEMENT

The Midwest Friends of the Pleistocene sponsored by the Minnesota Geological Survey will meet Friday, May 21 - Sunday, May 23 in central Minnesota on The St. John's University campus. This will not only be the 50th Midwest Friends of the Pleistocene meeting but it will commemorate 50 years Since Herb Wright and Al Schneider led the 5th FOP here in central Minnesota in 1954. (FOP math was used in the above calculations!)

LOCATION: St. John's University campus is located 90 miles northwest of Minneapolis-St. Paul near I-94. As you travel west on I-94 you take the "St. John's U" exit about 15 miles west of St. Cloud. Go south (you will see a large church bell tower in the distance to the south) for approximately one mile and watch for FOP signs as you enter campus. Check-in and lodging will be in Mary Hall and meeting/banquet rooms will be in Sexton Commons, which is adjacent and attached to Mary Hall. The campus lies in the center of a beautiful 2000 acre woodland. If you have time come early or stay late and enjoy hiking through the hilly forest, swimming in Lake Sagatagan, visiting their renowned medieval manuscript library, or attending vespers with the monks!

ITINERARY: Check-in will begin at 6 pm Friday, May 21st at Mary Hall. If you will be arriving late in the evening please let us know so that necessary arrangements can be made. There will be a discussion/poster room in Sexton Commons available both nights where beverages may be purchased. There will be wall space available for anyone interested in bringing posters or maps to be viewed for discussion. On Saturday and Sunday we will visit outcrops exposing: Late Wisconsinan Des Moines, Superior, and Wadena lobe deposits and also deposits of at least three pre-late Wisconsinan ice advances. These sites include exposures in eskers, drumlins, moraines, thrust blocks, tunnel valley fans, and also an exposure of a buried soil. These exposures should stimulate discussion on the following topics: dynamics of glacio-tectonic thrusting; drumlin formation; erosion, transport and deposition of source area material; and the processes involved in the formation of the St. Croix moraine. There will be a banquet Saturday evening, followed by "special activities". On Sunday, May 23rd we will return from our field trip to St. John's by 2 pm.

REGISTRATION: The \$100 fee includes field trip guidebook, two breakfasts, two lunches, banquet on Saturday night, field trip refreshments, and bus transportation on Saturday and Sunday.

LODGING: Accommodations will be in Mary Hall dormitory. Cost for a single room is \$28.50/night per person and cost for a double room is \$20.50/night per person. All rooms are supplied with sheets, towels, blanket, pillow, soap, and essential furniture. Each room has a sink; restrooms and shower facilities are shared. Please indicate a roommate preference if so desired when sending your payment. If you prefer to camp the nearest available campgrounds are the St. Cloud Campground and R.V. Park (about 10 miles east of St. John's), 320-558-2847 and El Rancho Manana in Richmond (15 miles southwest of St. John's), 320-597-2740.

MEALS: All of Saturday's meals and breakfast and lunch on Sunday are included in the registration fee. There will be food available for purchase in Sexton Commons on Friday night.

PAYMENT: Include your registration and lodging fees on the same check. Please note your lodging choice (single/double) and roommate preference. Make checks payable to "Friends of the Pleistocene" and mail to:

Alan Knaeble  
Minnesota Geological Survey  
2642 University Ave.  
St. Paul, Minnesota 55114

We won't reserve a place for you until we receive your check. Confirmation of receipt will be via e-mail (so include your e-mail address with your check). Paper receipts will be provided at conference check-in.

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If you have questions or need special arrangements please contact Alan Knaeble at [knaeb001@urnn.edu](mailto:knaeb001@urnn.edu) or 612-627-4780 ext. 210.

## INTERPRETING YOUR SOIL EVALUATION REPORT

Using soil evaluations to assess site suitability for septic systems is becoming more common in Illinois. Many terms and abbreviations used by soil classifiers are unfamiliar for those not in the field of soil science. Each section of a typical soil evaluation report is described below, with explanations of abbreviations and how various soil characteristics affect water flow within the soil.

### INTRODUCTION AND BACKGROUND

This section of the report describes the property location, current use, and date of investigation. Some counties require a new soil evaluation after a given amount of years have passed, so attention should be paid to the date of investigation.

### METHODS

Many counties utilize the 2003 *Private Sewage Disposal Licensing Act and Code* (State Code) as their guidance for methods to conduct soil investigations, although some counties have slightly different requirements based on local ordinances. Portions of the State Code referenced below are attached. In general, three or four soil borings or backhoe pits are excavated at least 50 feet apart in the vicinity of a future septic field to a depth of at least 60 inches. Soil characteristics are described from each boring or pit, and are correlated to specifications given in the State Code to determine sewage loading rates in gallons/square foot per/day (Figure 1). A table explaining how percolation rates correlate to loading rates (Figure 2) and a table discussing septic system sizing based on soils (Figure 3) are also included in the State Code. In general, the lowest loading rate observed in the upper 42 inches of the soils examined is used for septic system design and sizing.

### RESULTS

Each soil described is classified to the series level. A soil series is equivalent to a plant or animal species, in that a series represents a specific type of soil that can occur over a large geographic area. Soil series are often named for places near where they were first described (examples include Watseka, Beardstown, Streator, and Gorham). There are roughly 17,000 soil series in the United States, with about 430 found in Illinois. Each series has formed in one or more parent materials. Common parent materials include loess (wind-blown silty sediment), outwash (water-deposited sand and gravel or water-sorted loamy material), alluvium (soils of variable texture formed in and near floodplains), and till (mixture of sand, silt, clay, and coarser fragment deposited by glaciers).

One of the main advantages of a soil evaluation over a percolation test (a traditional method of testing septic field areas) is that layers within the soil that severely limit the function of septic systems can be defined. These limiting layers include bedrock, the seasonal high water table, dense soils with slow permeability, and sandy or gravelly soil with very rapid permeability. The State Code specifies that at least two feet of separation should exist between the bottom of the septic field and the limiting layer (three feet in coarser-textured soils). Installation of curtain drains, importation of fill material, or use of alternative sewage disposal systems are options that can be used where limiting layers occur at shallow depths.

## SOIL DESCRIPTIONS

A large amount of information is included in the descriptions of the soils examined. Each part of a typical soil description is discussed in detail below.

### Drainage Class

Drainage class refers to how well a soil naturally drained prior to modification by drain tile or other means. This designation is not precisely defined, but is broken into 7 classes: very poorly, poorly, somewhat poorly, moderately well, well, somewhat excessively, and excessively. The main factors considered when determining drainage class are soil color patterns, texture, and landscape position. Bright soil colors combined with high and/or sloping landscape position generally indicate a drainage class of moderately well or better. Somewhat excessively and excessively drained soils usually combine these features with high contents of sand and/or gravel. Somewhat poorly and poorly drained soils are common on low flats and floodplains, and are often tile drained to enhance agricultural production. These soils feature gray colors near the surface, and often have thick, black surface layers. Very poorly drained soils generally lie in enclosed depressions and are frequently ponded. Peat and muck soils are usually very poorly drained.

### Aspect/Slope

The slope of a soil is measured with a clinometer, and expresses how many feet the ground surface falls over a distance of 100 feet as a percentage. A 2 percent slope indicates a ground surface that falls 2 feet in 100 feet. Slopes often change rapidly over a short distance. Aspect is the direction that the measured slope is facing as one looks downhill.

### Horizon

Layers within the soil that differ in color, texture, or other ways are divided into horizons. Four to seven horizons are commonly present within the top 60 inches of a soil profile. The surface, or topsoil, is generally called the A horizon. The subsoil, where clay accumulates, structure develops, and colors are variable, is called the B horizon. The substratum, which consists of relatively unweathered soil material, is called the C horizon. Each of these master horizons can be subdivided if characteristics within them vary (for example, A1 and A2). Transitional horizons, such as AB or BC are also recognized. Features within each horizon can be recognized with lower case letters. Examples include Bt (clay accumulation in the B horizon), Bg (gray colors in the B horizon indicating poor internal drainage), and Ab (an A horizon that has been covered by fill or alluvial sediment). If parent materials change within the soil, it is signified with a number at the beginning of the horizon designation (examples include 2Bt and 3C).

### Depth

The location of each described horizon in inches below the surface is given in this section.

### Dominant Color, Munsell

Soil colors are described through use of the Munsell soil color charts. These charts consist of color chips that have been assigned names based on their hue, value, and chroma. Common colors and examples of Munsell designations that would describe these colors are given below:

Black                      10YR 2/1 and N 2/0



Brown	10YR 4/3 and 7.5YR 4/4	Gray
2.5Y 6/2 and 5Y 5/1		
Yellow/Red	7.5YR 6/6 and 10YR 5/8	

Iron is a major coloring agent in the soils of Illinois. Brown, yellowish, or reddish colors are mainly the result of precipitated iron (essentially rust) that coats soil particles. These colors generally indicate good internal soil drainage. When a soil is frequently saturated (poorly drained), the iron is dissolved and leached away, leaving a gray color that is the base color of the soil particles. Poorly drained soils often have a uniform gray or mottled, gray/red color pattern. The black color of topsoil is created by high organic matter content, which masks the coloring effects of iron.

### Redox Features

In areas where the water table fluctuates, soil horizons containing many different colors are often found. This mottled color pattern indicates how high the seasonal high water table (SHWT) gets in a soil, which is important since the SHWT is considered a limiting layer. The redox features section documents the various colors present in addition to the dominant color, and their abundance and pattern. Munsell colors are preceded by a code such as c2d. The first part of this code indicates color abundance, with f meaning less than 2% of the total soil matrix, c meaning 2%-20%, and m meaning greater than 20%. The second part of the code is the general size of the redox feature, and includes fine (1), medium (2), and coarse (3). The final portion of the code is how much the color contrasts with the dominant color, and includes faint (f), distinct (d), and prominent (p).

If a soil horizon contains more than 2% redox features (such as a 10YR 4/3 dominant color with c1d 2.5Y 5/2 redox features), it indicates that this horizon is affected by a SHWT. This type of color pattern would suggest that the SHWT is present for only brief periods during wet times of the year, but could still interfere with proper operation of a septic system.

### Coatings

Coatings of clay or organic matter are often deposited in the B horizons by water percolating downward. The color of these coatings is described, preceded by a code describing the abundance and contrast of the coatings similar to the code used for redox features.

### Structure

The structure of a soil is a description of the shapes soil assumes when it is disturbed. Structure is formed largely by cycles of wetting/drying and freezing/thawing, combined with the aggregating effect of some soil microbes. Types of structure include granular (gr), which is common in the A horizon; subangular blocky (sbk), angular blocky (abk), and prismatic (pr), which are common in the B horizons; platy (pl) which is found near the surface of timber soils or where compaction has occurred; and massive (ma) or single grain (sg), which is found in C horizons. Well-structured soils have large amounts of interconnected pores, which accelerate water and air movement. Weakly structured soils have less continuous pore space, which slows water and air movement. Structure is ranked on a scale of 0 to 3 (structureless, weak, moderate, strong). Structure size is also determined, and classified as fine (f), medium (m), and coarse (c). Blocky, prismatic, granular, and single grain structures are generally favorable for septic systems in soils with low to moderate clay contents.

### Texture

Texture is a group of terms that describe the amount of sand, silt and clay present in soils. These terms include sand (s), loamy sand (ls), sandy loam (sl), sandy clay loam (scl), loam (l), clay loam (cl), silt loam (sil), silty clay loam (sicl), silty clay (sic), and clay (c). In general, as silt and clay content increases in a soil, the permeability decreases. Silt loam and silty clay loam textures are very common in Illinois, having formed in loess parent material. When

clay content in soils exceeds 35% (heavy cl, heavy silcl, sic, or c textures), the soils are generally poorly suited for conventional septic systems because of slow permeability.

### Consistence

Consistence is a measure of how easily soil can be crushed between the thumb and forefinger. Classes of consistence include very friable (vfr), friable (fr), firm (fi), very firm (vfi), and extremely firm (xfi). In general, as soil consistence increases in firmness, permeability decreases.

### Soil Group and Loading Rate

The Soil Group is determined by referring to Figure 1, where each soil horizon's texture, structure, consistence, and parent material are used to assign a sewage loading rate in gallons/square foot/day. For example, a friable (fr) silty clay loam (silcl) formed in loess with moderate, medium subangular blocky structure (2msbk) would fall into Soil Group 6D with a loading rate of 0.62 gallons/square foot/day. In general, the lowest loading rate observed in the upper 42 inches of the soils examined is used for septic system design and sizing.

### Perc Rate

Approximate percolation rates of each horizon can be correlated to loading rates by using Figure 2. This information can help you correlate perc rates that may be more familiar to you with soils information.

If you have further questions or would like to learn more details about soils and their interpretations, please feel free to contact any member of the Illinois Soil Classifiers Association. A list of current members and their contact information is available at <http://www.illinoissoils.org>.

*Submitted by Todd Soukup*

*Contact Todd with any comments*

*815-439-6774 or via email at [TASoukup@earthlink.net](mailto:TASoukup@earthlink.net)*

## ***2004 Bent Auger Award***

Nominations for the Bent Auger Award need to be made for 2004. Please, nominate any of your co workers that may have done something to deserve this prestigious award. The award was shared last time between Ron Collman and Sam Werner. If you are not planning on attending the meeting, you can nominate someone by sending your story true or not, to [mattmc@midamer.net](mailto:mattmc@midamer.net).

# 2004 Election Ballot

## President

\_\_\_\_\_ Ann M. Mason

\_\_\_\_\_ Bruce Putman

## Vice President

\_\_\_\_\_ Bill Kreznor

\_\_\_\_\_ Scott Wegman



# NEWSLETTER

SPRING 2004

## Message from the President

Congratulations to the new officers of ISCA! Bruce Putman is President Elect and Bill Kreznor is the 2004 Vice President. Our Executive Council and Committee Chairs will be busy this year, as there are many items of business. Some of those items are: the Smithsonian Soils Exhibit, evaluation of the apprenticeship program in the Standards for Certification, getting the Membership Handbook and applications for membership and certification on the web, reviewing the code of ethics, assisting with the national collegiate soil judging contest, publishing a guide for homeowners to interpret their soils report, publishing a new ISCA general brochure, and publishing a new soils key for septic loading rates. If you have any ideas for these projects, contact the appropriate committee chair. I'm sure they will appreciate any suggestions and support.

We had a successful 29<sup>th</sup> Annual Meeting of our organization. Dan Rooney enlightened us on some current and new technology for sampling and analyzing soils. Check out some of the results of the Earth Information Technologies/NRCS joint project at: <http://216.170.169.179/SIS>. The login is ilnrcc and the password is musc41b.

Make sure you check out the new and improved web site at [www.illinoissoils.org](http://www.illinoissoils.org). Keep tabs on the Announcements section for new information and events. Also, check out any personal information, i.e. phone number, address, e-mail. This information is listed in several places. Check the Membership list, the list of Certified Soil Classifiers, the Consultants list, and in the interactive map. If you notice any error or omissions or if you have any information that you think should be on the web, contact me or a member of the Executive Council and we will take care of it.

Soil Consultants – Please review the interactive map for the counties in which you are willing to serve. We have several counties, mostly in the southern and southeastern part of the state that may have no one or only one soil classifier listed as a consultant. ISCA has reassured the Illinois Department of Public Health, septic contractors and installers that we can provide consultants throughout the whole state. Because we have assured them that we can provide state-wide coverage,

we have been able to be listed in the state code. Let's make sure that we can cover the entire state. Think about expanding your range of territory. If you are willing to be listed in other counties, please let me or a member of the Certification Board know and your name will be added to that county's listing on the web site. Let's see if we can have a classifier listed for every county!

Regards,

Mark Bramstedt  
[mark.bramstedt@il.usda.gov](mailto:mark.bramstedt@il.usda.gov)  
815-432-6639 x113

## National Collegiate Soil Judging Contest

ISU is hosting the National Collegiate Soil Judging Contest in April. Over 20 schools from around the nation will be competing. ISCA and NRCS are assisting with the contest, which will be held in McLean Co.

We need scorers/graders all day on Thursday April 22 and Friday April 23. If you are interested in helping RSVP to Bob Mcleese (217-353-6643 or [bob.mcleese@il.usda.gov](mailto:bob.mcleese@il.usda.gov)) by April 9.

*Submitted by Bob McLeese*

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## 2004 ISCA Committee Members

### Membership, Ethics and Certification:

Ken Gotsch, Chair; Bruce Putman; Bryan Fitch; Jesse Kurylo and Bill Teater.

### Finance

Bill Kreznor (Vice-President and chair), Ken Anderson, and Ann Mason

### Constitution, By-Laws and Legislative Committee

Jaimee Hammit (chair), Jeff Deniger and Dale Calsyn

### Certification:

Paul Brown, John Doll, Steve Elmer, Dana Grantham, Pat Kelsey, Bill Kreznor

## Smithsonian Soils Exhibit

### We need your help! A message from the SSSA Smithsonian Soils Exhibit Liaisons.

*By Mike Konen and Bill Kreznor*

As many of you know, the Soil Science Society of America (SSSA) is working with the Smithsonian Institution to develop a soils exhibit as part of their Global Links Gallery at the National Museum of Natural History. The exhibit will be located near the Hope Diamond in an area of the museum that draws 6 to 9 million visitors per year. The exhibit will consist of two components, a collection of state soil monoliths and an educational, interactive display.

ISCA has the opportunity to assist in this exciting project. Our challenge is to create public awareness of the exhibit and

help raise funds towards the sponsorship of the Illinois state soil monolith. If the \$10,000 sponsorship goal is

attained, the Drummer monolith will contain a plaque with ISCA's name along with those of any Illinois individual or corporate donor that provides a gift of \$1000 or more. The monoliths will be a permanent part of the museum.

We would encourage everyone interested in learning more about this exhibit to visit the SSSA-Smithsonian website (<http://www.soils.org/smithsonian/>). There are conceptual drawings, informational brochures, and a PDF donation form linked on the site. Donations should be sent to SSSA in Madison, not to ISCA.

The ISCA Executive Council has established an Ad Hoc Committee to lead the Illinois effort in getting the word out, fundraising, and submitting ideas toward the development of this exhibit. Mike Konen, Bill Kreznor, Bob McLeese, and Dave Rahe form this committee.

Feel free to direct any ideas, questions, or comments to Mike Konen at [konen@geog.niu.edu](mailto:konen@geog.niu.edu) (815-753-6849) or Bill Kreznor at [wm.r.kreznor@ameritech.net](mailto:wm.r.kreznor@ameritech.net) (815-338-2362)

## ISCA Soils Workshop was a success!

The Soil and Land Management Strategies for Native Vegetation Establishment workshop held on February 20, 2004 at the DuPage County Government complex was a success. Organized by the Public Relations and Education Committee of ISCA (Todd Soukup, Clayton Heffter and Jaimee Hammit), the workshop emphasized proper soil handling techniques in order to successfully establish native vegetation for projects involving wetland mitigation, wetland/stream restoration, streambank stabilization and/or buffers. There were 76 attendees at the workshop from government agencies, engineering/environmental consulting firms, landscaping companies, and even a few individuals simply interested in the topic. The first presentation was entitled "Large-Scale Wetland Construction and Grading Techniques" and was given by Jay Ellis, Operations Manager at Ryan Incorporated Central. Many of the attendees stated that they learned a lot from Jay's presentation. He did an excellent job of describing the different types of equipment specifically used in wetland creation and also emphasized the importance of writing performance-based specifications. The second presentation of the day was given by Thomas Granato, Ph.D, Head of the Biosolids Utilization and Soil Science Section of the Metropolitan Water Reclamation District of Greater Chicago (MWRD). In his talk "Characteristics of Chicago Biosolids and Their Use as a Conditioner to Enhance Soil Restoration, Mr. Granato discussed the content of biosolids and the national and state regulations guarding their use. He gave examples of projects where they were used in and around Chicago and pointed out that biosolids are "free for the taking" if you simply coordinate with MWRD. The final discussion of the morning was entitled, "Greenhouse Study of the Effectiveness

of Soil Amendments on Germination and Growth of Native Seed for Restoration at Indian Ridge Marsh". Warren Buchanan, President of Buchanan Consulting, Inc., discussed using biosolids in restoration projects and that the advantage to using biosolids is that you can amend the soil with organic matter without adding in a seedbank of invasive species. Following lunch, Todd Soukup, ISCA Member and President of Applied Land Analysis, Inc., gave a presentation called "Native Species Seeding Techniques and Trouble Spots". Todd explained how the equipment he uses in seeding works and how he changed his seeding techniques to address problems he has encountered. One attendee stated that she appreciated Todd "walking us through the ins and outs of seeding"; while others stated that it was their favorite topic of the day because it was most applicable to their profession. The fifth presentation of the day was given by Juli Janisch of V3 Consultants. Her presentation was entitled, "The "Scoop" on Soils for Wetland Mitigation – Project Examples and Reflections on Soil Conditions and Handling Techniques." Juli described the problems she has come across on wetland mitigation sites including soil compaction and low organic matter content. Through pictures and a straight-forward approach, Juli explained what she has learned from each one. The final presentation was given by Clayton Heffter, ISCA Member and Wetland Supervisor for DuPage County DEC and Jaimee Hammit, ISCA Member and Project Manager at the USACE, Chicago District. Clayton and Jaimee gave a quick review of the regulations surrounding native vegetation establishment and gave an update on what is happening in the regulatory world. Overall, the workshop went very well and many expressed interest in attending another similar workshop should ISCA choose to organize another.

Submitted by Jaimee Hammitt

## Symposium Announcement & Call for Papers

### Education & Employment Opportunities in Pedology: Dying, Thriving or just Changing?

The Pedology division (S5) within SSSA is sponsoring the symposium "Education & Employment Opportunities in Pedology: Dying, Thriving or just Changing?" at this year's annual conference in Seattle. The goal is to promote discussion about pedology as taught at universities as well as the changing nature of how it is practiced within government and the private sector. Thus, we seek presentations from all areas of pedology - professional practitioners, government soil scientists, educators involved in inter-disciplinary programs, etc. The format of the symposium will be an oral session ending with an open forum. As a result, we ask presenters to develop their presentations with the goal of generating discussion.

The session is being co-organized by Mike Konen and Lee Burras. Please contact either of us if you have any questions. The deadline for submitting a Title-Summary Form is May 3. Specific details regarding the SSSA annual meeting can be found at <http://www.asa-cssa-sssa.org/anmeet/>. We hope to see you in Seattle.

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*Submitted by Mike Konen*

### ISCA Member Moving On

After 16 years in Illinois, Karla (Hanson) Petges is pulling up roots and will be moving to Wisconsin with her husband Scott and daughter Abbey. Her husband has accepted a job offer, and they will be locating in the vicinity of West Bend, WI.

Karla graduated in 1987 from the University of Wisconsin - Stevens Point with a degree in Resource Management with a soil emphasis.

In 1988, she came to Illinois and first served as a county soil scientist working on the McLean County Soil Survey project. She was then hired by NRCS and worked as a technician, heading up a wetland inventory team. At the same time she did some soil mapping in Woodford County. Karla then made a career switch to a soil conservationist and worked first in the Bloomington field office and then the Freeport field office. She then converted over to a soil scientist and worked on the Marshall County soil survey project. From there she assisted the Rock Falls MLRA office with the Bureau County update. In 1995 she moved to the Aurora MLRA office assisting on a number of updates. She served as project leader for the Will County and LaSalle County updates.

Karla became a member of ISCA shortly after she arrived in Illinois. She has been active member ever since. She served as president and vice-president and worked on several committees.

We wish Karla and her family all the best.

*Submitted by Dale Calsyn*

RALPH JOSEPH MCCRACKEN

Ralph Joseph McCracken, 82, died Thursday, March 11, 2004, in Greensboro. There will be no formal service.

He was a farmer, rose gardener, soil scientist, professor, author, administrator, Boy Scout leader, Rotary Club president, religious fellowship teacher, president of the Soil Science Society of America and man of quiet faith. A lover of brass choirs and bluegrass, he was a friend to all children and dogs.

Son of John Raymond and Ina Ratliff McCracken, he was the last surviving sibling of Hadley, Edward, Wilbur, Paul, Charles and Alice McCracken. He was born in Cuba and grew up there and in Fairmount, Ind.

He is survived by his wife, Virginia Johnson McCracken, of Greensboro; son Douglas of Lugoff, S.C.; daughter Ellen (Nell) of Greensboro; granddaughters, Cille and Dixie; and nieces and nephews.

Friends who wish may send memorials to New Garden Friends Meeting, 801 New Garden Road, Greensboro, NC 27410; or to the general scholarship fund of the N.C. State University Foundation, c / o Joan DeBruin, Campus Box 7501, Raleigh, NC 27695.

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From American Men and Women of Science

Born, Guantanamo, Cuba, July 3, 1921. Education: Earlham College, AB 1942; Cornell University, MS, 1951; Iowa State University, PhD (Soils) 1956. Professional Experience: soil scientist, USDA, 1947-1949; 1951-1955; associate agronomist, University of Tennessee, 1955-1956; associate professor of soil science, North Carolina State University, 1956-1962; professor, 1962-1972; associate director, USDA Agricultural Research Service, 1973-1978; acting associate director USDA Science and Education Administration 1978-1980; deputy chief, Soil Conservation Service, 1981- (date of retirement not available.).



## USCSSA TELECONFERENCE

March 11, 2004

Chair: Jim Culver

Participants: Jim Culver- USCSSA Advisory Group, Luis Hernandez - Nebraska Society of Professional Soil Scientists, Ron Bauer - USCSSA Advisory Group, Bruce Williams-Pennsylvania Association of Professional Soil Scientists, Terry Arroues-Professional Soil Scientists Association of California, Kevin McSweeney- SSSA Smithsonian Soils Exhibit Coordinator, Ron Kuehl-Florida Association of Environmental Soil Scientists, Dan Shurtliff-Professional Soil Scientists Association of South Dakota, Darwin Newton- Soil Scientists Association of Tennessee, Mike Singer-SSSA Past President, Mark Silverman-Empire State Pedologists, Tom Fenton-Professional Soil Classifiers of Iowa, Chad McGrath- Oregon Society of Soil Scientists, Valerie Bruening-Director of Development and Membership of SSSA, Luther Smith- Executive Director of Certification Programs, ASA-CSSA,SSSA Margie Faber- Society of Soil Scientists of Southern New England, Tom Sims-SSSA President, Jane Anklam-Wisconsin Society of Professional Soil Scientists, Delany Johnson-Professional Soil Classifiers Association of Mississippi, Bill Pauls-Missouri Association of Professional Soil Scientists, Ellen Bergfield-NHQ, Linda Bouc (recorder)- Administrative Assistant NSSC. Mark Bramstedt-Illinois Soil Classifiers Association; Roger Berggren and Suzanne D'Souza - Minnesota Association of Professional Soil Scientists tried but were unable to join the teleconference because of our oversight in provided incorrect call in number in the original conference information. Our sincere apologize to Mark, Roger and Suzanne.

Agenda Items sent our prior to teleconference:

1. -- Briefing and discussion on State Soils -- Smithsonian Soils Exhibit project. Lead: Valerie Bruening, Director of Development for SSSA and Tom Sims President of SSSA
2. -- USCSSA - SSSA plans for joint activities such as "Roundtable" at the ASA-CSSA-SSSA meetings in Seattle, Washington this fall. Lead: Tom Sims, Tom Fenton, Professional Soil Classifiers of Iowa and Jim Culver
3. -- Information about a national survey of professional soil scientists. Lead Margie Faber, Soil Scientist, Society of Soil Scientists of Southern New England.
- 4.-- Changes in SSSA lead for soil certification and

ARCPACS use in state legislation/regulations. Lead: Luther Smith, Executive Director of Certification Programs, ASA-CSSA,SSSA

5 -- Discussion of USCSSA Council Membership participation in the 2004 Regional National Cooperative Soil Survey Conferences. Lead: Jim Culver

6 -- Brief summary of individual soil societies and associations activities - All Participants

Discussion during teleconference:

1 -- Briefing and discussion of State Soils -- Smithsonian Soils Exhibit project.

Valerie-SSSA: Goal for Smithsonian is 1-3 million dollars. Working on exhibit for monoliths. Curriculum exhibit at \$370,000. Short-term goal is to reach \$400,000. Will have enough money to hire a design firm for what the exhibit will look like. Would like to schedule this meeting in June. Get States to go in their individual direction. Have a committee together that includes H.H. Chen, Kevin McSweeney, and Patrick Drohan. Still looking for liaisons for Alaska, Arizona, Washington DC, Hawaii, Idaho, Kansas, Kentucky, Louisiana, Massachusetts, New Hampshire, New Jersey, North Dakota, Oklahoma, Oregon, Pennsylvania, Rhode Island, Utah, Vermont and Wisconsin. Asking for names. They can be emailed to Valerie at [vbreunig@agronomy.org](mailto:vbreunig@agronomy.org).

Luis-NE: Asked if there have representation for Puerto Rico.

ACTION: Kevin McSweeney will follow-up on Puerto Rico.

Comment: Government is interested in who is supporting this and would like to have a list of committee members and liaisons.

Bill-MO: Need to get Valerie in touch with Mrs. Jones. There is a possibility of an increase of funds. Went to State committee two weeks ago with our state soil. Chairman of the Ag Committee is sponsoring it. This project has helped us along with this.

Kevin-WI: Contacted state chapter of SWCS. Wisconsin will provide \$500 to help defray costs of people involved in the campaign. For each state - any individual or entity donating \$1,000 or more will get their name on the monolith. Suggest approaching Ag organizations, etc., for donations.

Bruce-PA - Had a golf outing. Received over \$1,000 from this golf outing and miscellaneous contributions. Touching base with some of these other Ag organizations for contributions.

Kevin-WI: The more we can demonstrate support, more dollars can be raised. Every donation counts.

Dan-SD: We sent out a direct mailing and are building a list of Ag organizations. We put together texture and sampling kits for sale at \$25.00 apiece and received about \$1,600 from these sales.

Jim: State Organizations having a Web-site are encouraged to post different activities going on within the states about raising money. Encourages states soil societies/associations contact the USCCA web site in posting what they are doing to raise donations supporting the State Soil Monoliths. An excellent way to share information with others. Banks and other lending organizations are also good potential for donations.

Valerie-SSSA: Would like committee members and co-chairs names to add to database for future mailings, such as thank you notes, etc. Valerie offered to participate in any teleconferences among states.

2. -- USCSSA - SSSA plans for joint activities such as "Roundtable" at the ASA-CSSA-SSSA meetings in Seattle, Washington this fall.

Tom-SSSA: The Roundtable was very successful at the SSSA Meetings in Denver, Colorado. Discussing the possibility of doing this again at the SSSA Meetings in Seattle. Considering coordinating and reevaluating the strategic plan for the Soil Science Society of America. Discussion on further direction on how SSSA can assist practicing soil scientists on certification. Need to decide if we want to have a roundtable discussion again and what topics we would want discussed.

Jane-WI: Sat in on roundtable discussion in Denver and think we should continue with this, as there is considerable confusion among soil scientists on the certification process.

Kerry-CA: Attended the SSSA Meetings in Denver also and agree to focus on this issue as well as accessory issues that should be discussed as well.

Tom-SSSA: Need to follow-up on a tour that could be tied to a session at the meetings on how a soil scientist would deal with this problem. At the session we could discuss solutions.

Jim: Include some things in a poster session, including Smithsonian and what soil scientists are working on.

Tom-SSSA: Will work on getting this on the program. Will draft tentative program and send out to group for comments.

Tom-IA: Need to contact State Soil Scientists early so their staff will have added incentive to attend the meetings.

Tom-SSSA: Targeted people on a SSSA mailing list and others and sent mailing to those within driving distance for the meetings in Denver. Propose to do this for the meetings in Seattle.

Jim: Last year Maury Mausbach, Deputy Chief of Soil Survey and Resource Assessment, sent a letter to the NRCS State Conservationists encouraging them to send at least one soil scientist from their state SSSA meetings in Denver, CO. Suggest this be done again this year to encourage attendance of NRCS field soil scientists at the SSSA annual meetings in Seattle, WA this fall.

Chad-OR: Washington, Oregon and Idaho are going to encourage as many of their field soil scientists as they can to attend.

3. -- Information about a national survey of professional soil scientists.

Margie-CT: Received feedback and added to questionnaire. The questionnaire is done and is being reviewed by Sarah at SSSA and will be put in format and posted online. Results will be captured and tallied digitally. Can have link and introductory paragraph out to as many people as possible. SSSA will put on web-site. Will go in SSSA News. Need to get word out on this questionnaire and will have available for two-three months. Will check with Sarah on the cost. Will check to make sure it can be submitted only once per person.

Bruce-PA: The listing with this group would at least be an initial attempt to notify them of the questionnaire.

Ellen Bergfield - NHQ. Single computer per questionnaire. There is a yearly fee for Boomerang, so there would not be any additional cost as it has already been paid. Single person can only submit one time per computer.

Bill-MO: Can this be linked per association web-site to be accessed directly from SSSA and also Consortium web-site.

Luther-SSSA: This questionnaire needs to be linked directly to SSSA.

4. - Changes in SSSA lead for soil certification and ARCPACS use in state legislation/regulations.

Luther-SSSA: Discussed ARCPACS. Spent a month of collecting information. Information gathered from states is that they have used it, but that it is not consistent. In the process now of reviewing data. This has helped us determine where it is in the states, and what our opportunities are. Still in discussion and research mode. Tell them to use the title of the certification.

5 -- Discussion of USCSSA Council Membership participation in the 2004 Regional National Cooperative Soil Survey Conferences.

Jim: The National Cooperative Soil Survey has recently added 1890 College and Tribal College to the membership of the NCSS Steering Committee. Would Consortium/SSSA want to be a member of the NCSS Steering Committee? The Chair of the Steering Committee is the Director of the Soil Survey Division. This might be a good stroke of business. The Steering Committee also includes six representatives from NRCS, one from U.S. Forest Service, one from Bureau of Land Management, National Society of Consulting Soil Scientists and a University representative from each of the four Regions. The Steering Committee generally meets during the SSSA meeting in the fall.  
ACTION: Jim will visit with Mike Golden for feedback.

Mike-SSSA: Not sure how you would choose a person. Most Universities are official cooperators.

Jim: Our by-laws say that we have two groups. One is the Council and the other is the Advisory Group. The Council consists of two representatives from each of the four regions. The Regional conferences are meeting this summer. The State hosting the

conference would have a representative as well as the State who hosted the conference in the region the last time.

6 -- Brief summary of individual soil societies and associations activities - All Participants

Chad-OR: Had our Oregon Soil Scientist Association meeting two weeks ago. Trying to build momentum for the Smithsonian project. Planning our summer meeting tour. Date not set yet. Will encourage soil scientists to attend SSSA meetings in Seattle.

Kerry-CA: Sent out mailer to PSSAC members and included a soils planner, a brochure from the Consortium, and a Soils Sustain Life brochure. Included information regarding the Smithsonian exhibit. Need about \$1,800 or so more to reach our goal. Have concerned individuals concerning ARCPACS.

Ron-FL: Have raised about \$7,200 dollars from members of the Consortium. Having annual Hydric Soils Workshop next week. Mary Collins is chair of a committee looking at undergraduate education to identify needs for soil scientists and on how Universities can attract undergraduates. If anyone has any input, please let Mary know by email - [mec@mail.ifas.ufl.edu](mailto:mec@mail.ifas.ufl.edu)

Tom-IA: Having spring meeting April 3, 2004, discussing the Smithsonian project. A Committee has been formed. This year hosting the Soil Science Institute II which is a four-week course starting mid-May ending mid-June.

Bill-MO: Went down to Legislature and testified. Also raised last \$2,300 for the Menfro monolith. Trying to raise additional funds for the greater project. Our Missouri Association shirts and hats were handed out as freebies when donations were received. Float trip scheduled in August and ballgame in Kansas City this summer. Dr. Scribner and Dr. Renner received special awards for their long term excellent contribution to Missouri Cooperative Soil Survey Program. Certification committee is interested in the ARCPACS discussion. Appreciate this forum.

Luis: Last month held winter meeting with about 35 members participating. Smithsonian exhibit agreed to donate \$1,000 and now have about \$3,000.

Continuing to look for other potential donators. Local newspaper is providing information to readers on donating to this exhibit.

Mark-NY: Had fall meeting. Tour of old Love Canal site near Niagara Falls in Buffalo. Looked at sinking houses in suburbs of Niagara Falls. Quite a number of homes in this development are sinking. No meeting scheduled for spring, but hope to have one this summer. No current information as far as fundraising for Smithsonian.

Bruce-PA - Held annual business meeting last December. Was voted again as President. Held session on soil/water management. Follow-up with technical session on storm water management. Working at getting our state soil legislated. Continuing on raising funds for Smithsonian exhibit. Involved with plans and field trip for World Congress in 2006.

Dan-SD: Annual business tomorrow. Sent out direct mailing on Smithsonian Soils Exhibit. Should have enough to send in down payment toward our 10,000. Will be discussing this and hosting soils judging in the Black Hills in 2005. Part of our summer meeting

will be choosing sites for the soil-judging contest.

Jane-WI: Working raising funds for the Smithsonian. Making sure soil scientists across the state can participate in the survey.

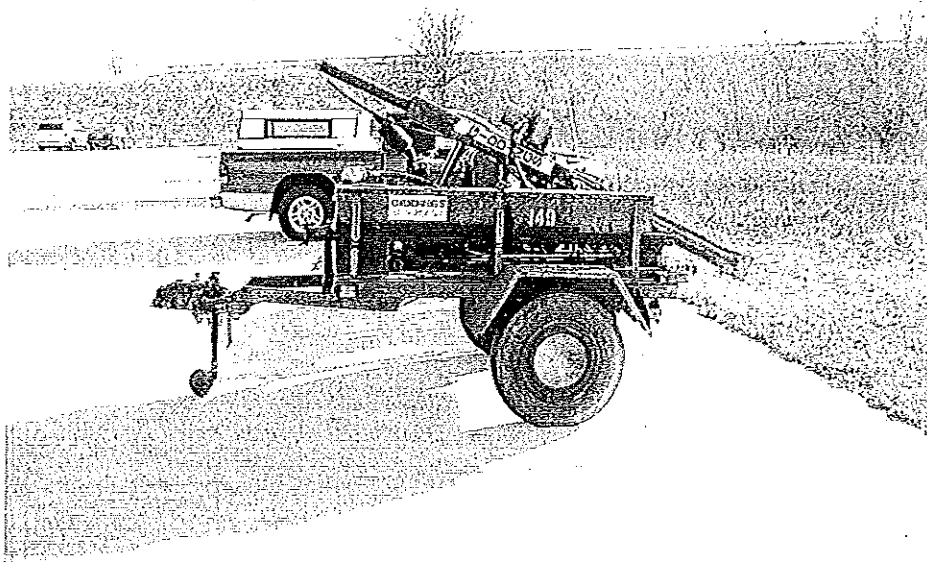
Margie-CT, MA, RI: Will hold spring workshop in late May. Planning this as a fundraiser for the Smithsonian. We are about a third of the way for the CT monolith. Many members are renewing their memberships. Currently have about 210 members.

Mike-SSSA: Appreciate everyone's effort and time they have put into the Smithsonian project.

Delaney-MS: We have some good ideas for fundraising. The South Regional Work Planning Conference will be in Biloxi, Mississippi. Will have summer meeting in July. Working on fund raising.

Teleconference adjourned about 11:00 a.m.

*Submitted by Mark Stelford*



### 1981 Model Giddings Trailer Mounted Probe to be Auctioned

2 Cylinder engine that runs well

Supplied with one Kelly bar and no tubes

Needs fires

Located at the NRCS state office in Champaign

More information regarding this item and where to bid  
will be forthcoming in an upcoming newsletter.

#### ISCA Members List

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			6945	
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			9200	
Gramm	Larry	<a href="mailto:lgramm@v3consultants.com">lgramm@v3consultants.com</a>	(217) 532-	
			5285	
Grantham	Dana	<a href="mailto:dbgrantham@consolidated.net">dbgrantham@consolidated.net</a>	(618) 468-	
			4821	
Greenwood	Gary	<a href="mailto:GGREENWO@LC.CC.IL.US">GGREENWO@LC.CC.IL.US</a>	(312) 353-	
			6400	4033
Hammit	Jaimee	<a href="mailto:jaimee.w.hammit@usace.army.mil">jaimee.w.hammit@usace.army.mil</a>	(636) 296-	
			6111	22
Harding	Scott	<a href="mailto:sharding@SCIEngineering.com">sharding@SCIEngineering.com</a>	(630) 682-	
			6724	
Heffter	Clayton	<a href="mailto:clayton.heffter@dupageco.org">clayton.heffter@dupageco.org</a>	(309) 824-	
Hornickel	James	<a href="mailto:mudhen4@msn.com">mudhen4@msn.com</a>		

			4826	
Houghtby	Bruce	<a href="mailto:Houghtby@Elknet.net">Houghtby@Elknet.net</a>	(815) 344-4020	
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Lilly	Michael	<a href="mailto:mike.lilly@worldnet.att.net">mike.lilly@worldnet.att.net</a>	(334) 887-4517	
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Mapes	Rex	<a href="mailto:Digger2076@aol.com">Digger2076@aol.com</a>	(630) 627-9522	
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Norm	Patti			

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			(630) 851-	
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			(618) 846-	
Phillips	Don		2202	
			(815) 338-	
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			(217) 854-	
Rahe	David	<a href="mailto:daver@wamusa.com">daver@wamusa.com</a>	2628	3
Readle	Elmer	<a href="mailto:EREADLE@YAHOO.COM">EREADLE@YAHOO.COM</a>		
Reinebach	Loyal			
Rhykerd	Rob			
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Sabdo	Christy			
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			(815) 439-	
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			(217) 241-	
Suhl	Steven	<a href="mailto:steve.suhl@il.usda.gov">steve.suhl@il.usda.gov</a>	6645	5
			(630) 851-	
Swain	Catherine	<a href="mailto:catherine.swain@il.usda.gov">catherine.swain@il.usda.gov</a>	3254	
			(217) 241-	
Teater	William	<a href="mailto:billt@dpc.net">billt@dpc.net</a>	6645	122
			(217) 241-	
Tegeler	Robert	<a href="mailto:bob@family-net.net">bob@family-net.net</a>	6645	119
			(217) 352-	
Voss	Earl	<a href="mailto:evoss@advancenet.net">evoss@advancenet.net</a>	3089	
			(217) 746-	
Walker	Donald		8601	
			(651) 602-	
Walker	Michael	<a href="mailto:mbwalker@juno.com">mbwalker@juno.com</a>	7892	
Wallace	Donald			
			(217) 223-	
Wegman	Scott	<a href="mailto:sww@mail.klingner.com">sww@mail.klingner.com</a>	3670	
			(618) 252-	
Weiss	Benny		4292	
			(812) 853-	
Werner	Sam	<a href="mailto:Samuel.E.Werner@usace.army.mil">Samuel.E.Werner@usace.army.mil</a>	5631	
			(847) 356-	
Westphal	Gloria	<a href="mailto:westphal@techheadnet.com">westphal@techheadnet.com</a>	6249	

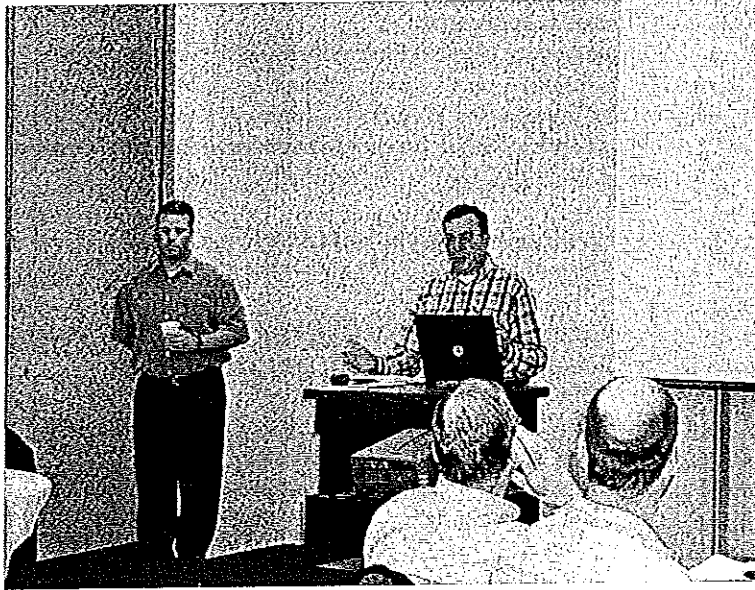


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Wollenweber	Jennifer			
Zwicker	Steven	Steve.Zwicker@il.usda.gov	(815) 875-8732	116

Last Name	Address	City	State	Zip
Alexander	2607 Melrose Dr. Kane Co. Dept. of Env.Mgt.	Champaign	IL	61820
Anderson	719 Batavia Ave	Geneva	IL	60134
Anthony	4833 Owen Center Road	Rockford	IL	61101
Berning	2811 Brown Street	Alton	IL	62002
Boniak	724 Drury Rd	Carbondale	IL	62901
Bramstedt	1001 East Grant Street, Suite A c/o Andrews Engineering	Watseka	IL	60970
Brown	215 W Washington Bushue Soil Consulting	Pontiac	IL	61764
Bushue	1911 Scottsdale Drive	Champaign	IL	61821
Calsyn	117 Laurie Lane	Oswego	IL	60543
Cochran	1515 Casselbury Lane	Champaign	IL	61822
Collman	1407 New England Dr.	Charleston	IL	61920
Copenhaver	1110 Beverly Dr.	Lake Villa	IL	60046
Craven	761C Columbine Village Dr.	Woodland Park	CO	80863
Cummins	3225 Nortonville Rd.	Waverly	IL	62692
Darmody	1102 S. Goodwin	Urbana	IL	61801
D'Avello	806 Cedar Ridge CT.	Mahomet	IL	68153
Deniger	2 S. 621 Wembly	Warrenville	IL	60555
Doll	1702 Harrington Drive Village of Barrington Hills	Champaign	IL	61821
Einhorn	112 Algonquin Road	Barrington Hills	IL	60010-5199
Elmer	27560 Ebenezer Rd. USDA NRCS	Geneseo	IL	61254
Endres	6013 Lakeside Blvd. USDA NRCS	Indianapolis	IN	46278
Fehrenbacher	313 J Naperville Road	Plainfield	IL	60544
Fitch	2904 Delora Lane	Herrin	IL	62948-3703
Follmer	808 Vista Dr.	Savoy	IL	61874
Ford	RR 1 Box 248	Greenfield	IL	62044
Frazee	65 Gaffney Road	Divernon	IL	62530
Gaines	8611 Wieseman Road	Worden	IL	62097
Gotsch	RR 3 Box 246	Shelbyville	IL	62565
Gradle	3803 Deerfield Dr.	Champaign	IL	61821

Gramm	V3 Consultants 7325 Janes Ave., Ste. 100	Woodridge	IL	60517
Grantham	9238 N. 15th Avenue	Butler	IL	62015-2301
Greenwood	9026 Blue Ridge Road	Alton	IL	62002
Hammit	111 N. Canal St. #600	Chicago	IL	60606
Harding	9833 Lower Marine Road	Marine	IL	62061
Heffter	826 Burnham Ln.	Batavia	IL	60510
Hornickel	104 Cornell Drive	Normal	IL	61761
Houghtby	4314-A Crystal Lake Road	McHenry	IL	60050
Indorante	615 S. Wedgewood Lane	Carbondale	IL	62901
Johnson	713 S. Lynn	Champaign	IL	61820
Johnson	411 East Clare	Pittsfield	IL	62363
Johnson	900 Alexander	Galena	IL	61036
Keene	601 E. Pennsylvania Christopher B. Burke Eng.	Urbana	IL	61801
Kelsey	116 W. Main St., Ste. #201	St. Charles	IL	60174
Kiefer	103 Wilson Drive Marathon County UW-Extension	Watsika	IL	60970
Kluz	212 River Dr., Ste 3 NIU Dept of Geography	Wausau	WI	54403-5476
Konen	118 Davis Hall	Dekalb	IL	60115
Kreznor	904 Powers Road	Woodstock	IL	60098-2702
Krumwiede	3942 Garden Ave.	Western Springs	IL	60558
Kuhn	929 Hickory St.	Waukegan	IL	60085
Kurylo	607 E. Peabody Dr Box 397	Champaign	IL	61821
Latowski	231 Baldwin	Sharon	WI	53585-0397
Lenz	3925 J J Road	Waterloo	IL	62298-2711
Lilly	214 Dublin Court	Brandon	MS	39047-8051
Love	708 Belmonte Dr.	Auburn	AL	36830
Macho	5 Ginger Woods Court	Glen Carbon	IL	62034
Mapes	41 Highmeadows Circle Strata Environmental, Inc. PO Box	Powell	OH	43065
Mason	1344 45W134 Raymond Road	Lombard	IL	60148
McCannon	PO Box 470	Sugar Grove	IL	60554-0470
McCauley	1571 Club Road	Carterville	IL	62918
McClain	Soil Horizons, Inc. 1076 Bucks Pond Road	Lafayette	IN	47905-7814
McLeese	1300 Drawbridge Lane	Monticello	IL	61856
Miles	510 Keane Lane #1	Terra Haute	IN	47803
Mulcahy	N 7842 Hillside Dr. McHenry Co. Dept. of Health	Whitewater	WI	53190
Nomm	2200 N Seminary Ave	Woodstock	IL	60098
Oja	1143 N. Seminary Ave	Woodstock	IL	60098

	Box 168			
Olson	3009 Kyle	Urbana	IL	61802
Pearse	309 S. State Hwy 1	West Union	IL	62477
Petges	2007 Brunswick Drive	Plainfield	IL	60554
Phillips	R.R. 1, Box 14	Shobonier	IL	62885
	Putman Soil Testing, Inc.			
Putman	1200 Portage Lane	Woodstock	IL	60098
Rahe	828 S. Oak Street	Hillsboro	IL	62049
Readle	103 Dogwood Dr.	St. Augustine	FL	32084
Reinebach	1022 S. 21st St.	Quincy	IL	62301
	Illinois State University, 150 Turner			
	Hall			61790-
Rhykerd	Campus Box 5020	Normal	IL	5020
Rust	1922 Autumn	St. Paul	MN	55113
Sabata	3030 SE Aries Ave.	Topeka	KS	66605
Sabdo	361 Brittany Ct., Apt. A	Geneva	IL	60134
				61853-
Scott	411 N. Dorchester Drive	Mahomet	IL	9539
Soukup	P.O. Box 651	Plainfield	IL	60544
Stelford	12140 Aldrich Rd.	Sycamore	IL	60178
Suhl	101 Deer Creek Road	Rochester	IL	62563
				60504-
Swain	1119 Southgate Ct	Aurora	IL	8971
Teater	10469 Locust Rd.	Tremont	IL	61568
Tegeler	124 Joan Dr.	Divernon	IL	62530
Vöss	4009 Farhills Drive	Champaign	IL	61822
Walker	1641 E. County Road 1800	Carthage	IL	62321
Walker	13 Marie Ave. E	West St. Paul	MN	55118
Wallace	643 North Kansas	Edwardsville	IL	62025
	Klingner and Associates			
Wegman	616 North 24th St.	Quincy	IL	62301
Weiss	755 Walnut Grove Road	Harrisburg	IL	62946
Werner	320 Jackson St.	Westfield	IL	62474
Westphal	31849 117th Street	Twin Lakes	WI	53181
Williams	111 N. Almond St.	Carbondale	IL	62901
Windhorn	P.O. Box 6232	Champaign	IL	61826
Wollenweber	805 S. State	Yorkville	IL	60560
Zwicker	251 Country Rd., 1550N	Bradford	IL	61421



Sam Indorante introduces Dan Rooney at the 2004 ISCA annual meeting.

ISCA 29TH ANNUAL MEETING MINUTES  
March 6, 2004  
Rend Lake Resort and Conference Center, Illinois

Welcome, and opening remarks by Mark Bramstedt, ISCA President Elect  
Invocation was given by J. Wiley Scott.  
27 members and guests were in attendance.  
A buffet style lunch was served.  
President Elect Mark Bramstedt called the business meeting to order at 1:00 PM.

Secretary's Report –As of March 1, there were 88 paid members. Two Certified members and eight other members are delinquent. Notices have been prepared and will be mailed on Monday 3/8/2004. Cochran polled the audience to see if there was interest in purchasing more shirts with ISCA logos. There was not since most members had them. The membership did express interest in having the opportunity to purchase specialty clothing including ISCA patch, jacket or lightweight hat. Cochran will look into it for this year.

Treasurer's Report - Charles Frazee reviewed income and expenses for the past year. Balance at beginning of year was \$9579.52. Balance at end of year was \$10,328.26.

Standing Committee Reports:

Constitution, By-Laws and Legislative – No formal report.

Ethics, Certification and Membership – Chris Cochran reported that five new members joined and two members upgraded their membership during 2003. Two members, John Skrip and Dale Parker, notified the Executive Council of their intention to discontinue their membership, and one member, Jack Paschke, passed away. Currently there are 44 ISCA Certified Members.

Finance – Matt McCauley gave the report. Don Fehrenbacher reviewed the books and found they were in order. The projected expenditures for 2004 are: Soil Survey Horizons - \$1,100; Administration - \$400; Certification - \$100; Misc - \$100; Summer Mtg - \$300; Fall Meeting - \$750; Awards - \$300; Public Relations - \$350 for a total of \$3800.

Newsletter – Matt McCauley emphasized three things. 1) needs articles. 2) email is the recommended delivery option. 3) needs to be notified of change of address or email.

Nominations – Les Bushue made final call for ballots and retired to count them.

Public Relations and Education / State Soil - Todd Soukup announced the Kim Fletcher from ISU was this years Burt Ray Award recipient of \$250. This award was increased from last year's \$50 by vote of the Executive Council on October 18, 2003. Comments from the membership for the "Interpreting Your Soil Evaluation Report" brochure is requested. The "Native Vegetation Workshop" was held in February, 2004. 76 people attended. There was a lot of interest in this program and a follow up program as well. The ISCA pamphlet is 20 years old and needs updating. Suggestions are welcome.

Program – Sam Indorante thanked his committee for setting up the meetings in the Fall and Spring.

Ad Hoc Committee Reports:

Historian - No report.

Technical Criteria – Bruce Putman reported that the State revised the code and did not inform the ISCA. The loading rate chart is being updated and more work needs to be done before it can be presented to the membership for approval.

Web Page – Mark Bramstedt requested that Certified members go to the web site and check to make sure that their information is correct. He also requested that individual members expand their coverage Statewide to include some of the underserved Counties in southern Illinois. He also requested that members check the announcement part of the web site. He wishes to use that as the announcement vehicle to get information to the membership.

Special Appointee to State Advisory Commission on Private Sewage Disposal – No report.

Illinois Conservation Congress – Patrick Kelsey reported that the Congress has been suspended due to lack of funding.

Old Business:

State Soil – Jim Hornickel pointed out the State of Illinois' web site lacked any mention of the State Soil under the State Symbols section. Jim distributed a copy of a letter drafted by Congressman Rutherford requesting that the State Soil be added to the web site along with a brief history/narrative.

Keys to Wastewater Loading Rates – See Technical Criteria above.

Smithsonian Monolith Project - Bill Kreznor will work with Mike Konan on ways to raise \$10,000 for this effort.

New Business:

2004 Budget – Budget of \$3800 was approved by membership.

2004 National Collegiate Soil Judging Contest - Contest is to be held April 22-23, 2004 at ISU. Judges are needed for both days. Contact Bob McLeese if interested. NRCS employees are allowed official time. ISCA hats will be awarded to the winners of the contest.

Use of ARCPACS in state legislation/ISCA bylaws? – The American Society of Agronomy (ASA) and the Soil Science Society of America (SSSA) have voted to move the soils certification from ASA to SSSA and to no longer use the ARCPACS name. If you know of legislation in your state or nationally where the term ARCPACS is used, please send the name of the municipality/county/state and the Web site link and/or regulatory point person's name and contact information to Kathie Nardi at ASA-CSSA-SSSA headquarters, knardi@agronomy.org

Proposed Changes in the "Standards for Certification of Professional Soil Classifiers" – A proposal to amend the "Standards" was approved by the Membership Committee and the Executive Council. In brief, the proposal was to eliminate the need for an apprenticeship for Certification. Discussion followed. Members were concerned that this might downgrade the certificate. Other alternatives were discussed. The proposed changes failed for lack of a member to make a motion to approve.

Election Results – Bruce Putman, President Elect; Bill Kreznor, Vice President

Ethics Concerns - Doug Gaines brought up the issue of NRCS employees being allowed to practice soil science as consultants after work and on weekends. His concern was that there might be the perception of a conflict of interest, in certain circumstances, of both acquiring work or in having his/her (NRCS) work called into question in an appeal situation. Doug requested that ISCA issue a statement clarifying this matter. The Chair will ask the Ethics, Certification and Membership Committee to look at this issue.

Soil Information System (SIS) - Dan Rooney, Earth IT, made a presentation on new technologies/methodologies for mapping soil in the 21<sup>st</sup> Century. The presentation discussed ongoing projects and applications and how they are or might be used in precision agriculture.

Bent Auger Award – The 2004 winner of this prestigious award is Karla Petges of Aurora.

Member Leaves State – Karla Petges (Bent Auger Award Recipient and Past President – 2001) is leaving for Wisconsin. We wish her well. A party at the Aurora MLRA Project Office will be held March 24, 2004.

Passing the Gavel – Mark Bramstedt accepted the gavel as the new 2004 President of ISCA. Mark Stelford, Past President, was out of the country during the ceremony but will return as the Nominations Chairman.

The Meeting was adjourned at 3:18pm.

#### 2004 ISCA Officers and Committee Chairpersons

##### Executive Council

President – Mark Bramstedt  
Vice-President – Bill Kreznor  
Treasurer – Charles Frazee  
Secretary – Chris Cochran  
Past-President – Mark Stelford  
President-Elect – Bruce Putman

##### Standing Committees

Constitution, By-Laws, and Legislative – Jaimee Hammit  
Ethics, Certification and Membership – Ken Gotsch  
Finance – William Kreznor  
Newsletter – Matt McCauley  
Nominations – Mark Stelford  
Public Relations and Education – Don Fehrenbacher

##### Ad Hoc Committees

Historic – Roger Windhorn  
Program – Jim Hornickel  
Smithsonian Project Liaison – Michael Konen, William Kreznor  
Special Appointee to State Advisory Commission on Private Sewage Disposal – Don Fehrenbacher  
Technical Criteria – Bruce Putman

##### Certification Board Members

Chairperson – ??  
Secretary-Treasurer -- ???  
Paul Brown  
John Doll  
Steve Elmer  
Dana Grantham  
Patrick Kelsey  
William Kreznor

##### Illinois Conservation Congress Delegate Suspended

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A brief Executive Council Meeting followed.

##### Present:

President – Mark Bramstedt  
President-Elect – Bruce Putman  
Vice President – Bill Kreznor  
Treasurer – Charles Frazee  
Secretary – Chris Cochran  
Newsletter Chairman – Matt McCauley  
Program Chairman – Jim Hornickel  
Ethics, Certification and Membership Chairman – Ken Gotsch

Mark Bramstedt called the meeting to order immediately following the Annual Meeting.

Motion to approve the minutes from the Executive Council Meeting on Feb. 20, 2004 was made, seconded, and approved unanimously.

President Bramstedt stated that although the voting members of the Executive Council are: President, Vice-President, President-Elect, Past President, Treasurer, and Secretary, he would like to see as many of the Standing Committee and Ad Hoc Committee Chairs attend Executive Council Meetings, if possible, to help do the business coming before our organization.

Treasurer Report: Handed out. Approved.  
Call for Committee Reports.

Ethics, Certification and Membership Committee: Called for motion to approve Richard Boniak's reinstatement to Student Member. He has paid all dues, past and present, and the committee recommends approval. Motion made, seconded and approved. Mike Walker, Full Member, requested a change in his status to that of, Out of State Member. The Committee recommends approval. Motion passed. Question was raised about the status of members who are delinquent. Delinquent members have until April 1, 2004 to pay their dues before they are considered "Lapsed." To date, 2 certified members and 8 non-certified members are delinquent. Follow-up call will be made by President Bramstedt to those who have not responded by April 1, 2004.

Old Business:

Membership Handbook and Application are in PDF format. Will be reviewed to make sure it's the latest.  
Web page – Mark sent out 2003 Council, statistics on site. Will send out to new Council as well.  
ISCA Brochure – Public Relations and Education Committee will look into updating it. Old one is 20 years old.  
Interpreting Soils for Septics Brochure – Need to make it usable Statewide and represent ISCA.  
Newsletter – Forward our newsletter to USCSSA, Jim Culver.

New Business:

Certification Standards – Mark brought up the point that the Standard requires so many years of experience, but what constitutes a "year of experience" is not defined, i.e. how many hours, or percent of time is devoted to soil classification. Suggests the constitution committee look into it. Cochran brought up the point that although the "Proposed Changes" to the Certification Standards was defeated due to lack of a motion, enough questions and concerns were raised during discussion that the issue ought to be given back to the Committee for further review and possible polling of members in the newsletter. Mark agreed it should go to Committee before further action is taken. Mark brought up the point that we may be asking irrelevant questions on our application forms, such as "date-of-birth". Since age requirements are not part of our organization, the committee should look into removing unnecessary questions.

Web fee – Discussion of \$10 fee for private consultant listing. Only people who pay fee are on interactive map. Why the fee? Question raised to eliminate the fee, charge only non-ISCA Certified members, or keep as is. Recommend Certification Board make a recommendation.

Annual Meeting – suggestion that Annual Meetings be held in the Central part of the State to encourage attendance. Fall meetings can be held around the State.

The next ISCA Executive Council Meeting will be held May 21, 2004, at 10:00AM, at the NRCS State Office in Champaign, IL.

The meeting adjourned at 4:00PM.

Respectfully submitted,

Chris Cochran, Secretary



# NEWSLETTER

Summer 2004

## Message from the President

ISCA continues to be an active organization and there are plenty of ways where one can become involved and stay involved. Here are some current needs and suggestions:

- ISCA is sponsoring an exhibit at the Illinois Land Improvement Contractors Association Conservation Expo 2004. Help is needed to set up and staff the exhibit. See the article in this Newsletter.
- ISCA can provide volunteers to work in the Underground Adventure (a permanent soils exhibit at the Chicago Field Museum of Natural History) as the "Scientist at the Field". Why wait for the Smithsonian soils exhibit to be developed when we have an excellent exhibit in our own state! Check out the ISCA web site for more information.
- If fund-raising is your strength, the special committee on the Smithsonian soils project could use your help to generate funds from corporate sponsors and individuals.
- If you want to volunteer to help out a committee, please contact the chair of the committee and offer your assistance. No one turns down free help, these days.
- If you are willing to serve as an officer or committee chair for 2005, contact Mark Stelford, Past President and chair of the Nominations Committee. In particular, there will be a need for a new Newsletter Editor for 2005. After several years of serving as the Newsletter Editor, Matt McCauley has decided not to continue after this year. His efforts have been greatly appreciated. The chair of the Newsletter Committee is one of the hardest to fill, so I'm sure Mark Stelford will appreciate any volunteers.

You will find more information about these activities in this Newsletter and on the ISCA web site. Contact the appropriate member to offer your help. If these opportunities don't get you excited, there are other ways in which you could help. If you would like more information or if you don't know who to contact, I would gladly provide that information to you.

Regards,

Mark Bramstedt, President  
[mark.bramstedt@il.usda.gov](mailto:mark.bramstedt@il.usda.gov)  
815-432-6639 x113 (work)  
815-351-7845 (cell)

## New Editor Needed

After 4 years as the ISCA Newsletter Editor, I have decided to let someone else have a chance at it. I will continue to be the editor until Mark Bramstedt's term is up at the next annual meeting.

I have enjoyed being the ISCA Newsletter Editor over the last 4 years. I appreciate all the help I have been given from fellow members and especially the past Presidents.

Please contact Mark Stelford, if you are interested in becoming the new editor.

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## INSIDE THIS ISSUE

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## **Reminder of Ethical Conduct for Members**

The ISCA Ethics, Certification, and Membership Committee was directed by the ISCA president at the 2004 Annual Meeting to review, clarify, and advise the Executive Council regarding a non-specific potential conflict of interest and violation of the ISCA Code of Ethics under the following circumstances: when USDA Natural Resources Conservation Service employees, who are also ISCA Certified Soil Classifiers, engage in private consulting. The concern is that NRCS employees, who also work as an ISCA private consultant when off-duty, may use his/her official government position to further his/her private consulting business or to arbitrate his/her own personal advantage against an ISCA private consultant. The Committee has reviewed the situation and has determined that:

- 1.) Federal employees have the right and authority to seek outside employment and to serve as a private consultant.
- 2.) Employees of the U.S. government are held to very high standards of ethical conduct and are governed by many rules and regulations (5 CFR Part 2635, Subpart H).
- 3.) ISCA members have agreed to abide by the Code of Ethics of the Illinois Soil Classifiers Association.
- 4.) The ISCA Code of Ethics and the ethical standards addressed in the Congressional Federal Registrar already address any instances of a conflict of interest and of using government employment to an employee's personal advantage.

Therefore, the Committee recommended to the Executive Council (1) that any specific case of a potential violation of the Code be brought discreetly to the Committee and the Executive Council, as mentioned in the ISCA Constitution and By-Laws, and that (2) any referrals of potential violation be handled on an individual basis as stated in the ISCA Code of Ethics, Article V, paragraph 3. Furthermore (3) no action by the Executive Council is necessary since the ISCA Code of Ethics and the ethics laws for federal employees already exist to cover these situations. The Executive Council agreed with the Committee's recommendations and also decided to publish the ISCA Code of Ethics on an annual basis as a reminder to all members.

# **CODE OF ETHICS OF THE ILLINOIS SOIL CLASSIFIERS ASSOCIATION**

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AUGUST 1, 1975  
REVISED MARCH 19, 1988

## **ARTICLE I. GENERAL PRINCIPLES**

1. The privilege of professional practice imposes obligations of morality and responsibility as well as professional knowledge.
2. Each Member or Associate member (hereafter called Member) agrees to be guided by the highest standards of business ethics, personal honor, and professional conduct.
3. A Member shall not perform beyond the scope of his/her education and experience.

## **ARTICLE II. RELATION OF MEMBER TO THE PUBLIC**

1. A Member shall avoid and discourage sensational, exaggerated, and unwarranted statements that might induce participation in unsound enterprises.
2. A Member shall not knowingly permit the publication of his/her reports or other documents for any unsound or illegitimate undertaking.
3. A Member shall not give professional opinion or make a recommendation without being as thoroughly informed as might reasonably be expected considering the purpose for which the opinion or recommendation is desired; and the degree of completeness of information upon which it is based should be made clear.
4. A Member may publish dignified business, professional or announcement cards, but shall not advertise his/her work in a self-laudatory exaggerated, or unduly conspicuous manner.

5. A Member shall not issue a false statement or false information even though directed to do so by employer or client.

### **ARTICLE III. RELATION OF MEMBER TO EMPLOYER AND CLIENT**

1. A Member shall protect, to the fullest extent possible, the interest of his/her employer or client insofar as such interest is consistent with the public welfare and his/her professional obligations and ethics.

2. A Member who finds that his/her obligations to an employer or client conflict with his/her professional obligation or ethics should have such objectionable conditions corrected or resign.

3. A Member shall not use, directly or indirectly, any employer's or client's information in any way which would violate the confidence of the employer or client.

4. A Member retained by one client shall not accept, without client's written consent, an engagement by another if the interests of the two are in any manner conflicting.

5. A Member who has made an investigation for any employer or client shall not seek to profit economically from the information gained, unless written permission to do so is granted, or until it is clear that there can no longer be a conflict of interest with the original employer or client.

6. A Member shall not divulge information given to him in confidence.

7. A Member shall engage, or shall advise his/her employer or client to engage, and cooperate with, other experts and specialists whenever the employer's or client's interests would be best served by such service.

8. A Member shall not accept a concealed fee for referring a client or employer to a specialist or for recommending professional service other than his/her own.

### **ARTICLE IV. RELATION OF MEMBERS TO EACH OTHER**

1. A Member shall not falsely or maliciously attempt to injure the reputation or business of another.

2. A Member shall freely give credit for work done by others to whom the credit is due and shall refrain from plagiarism in oral and written communications, and not knowingly accept credit rightfully due another person.

3. A Member shall not use the advantages of salaried employment to compete unfairly with another member of his/her profession.

4. A Member shall endeavor to cooperate with others in the profession and encourage the ethical dissemination of technical knowledge.

5. A Member having knowledge of unethical practices of another Member shall avoid association with that Member in professional work.

### **ARTICLE V. DUTY OF THE MEMBERSHIP**

1. Every Member shall aid in the preventing the election to membership of those who lack moral character, who have not followed these standards of ethics, or who do not have the required education and experience.

2. It shall be the duty and professional responsibility of every Member not only to uphold these standards of ethics by precept and example but also, where necessary, to encourage, by counsel and advice, to other Members their adherence to such standards.

3. It shall be the obligation of any Member having positive knowledge of deviation from these standards on the part of another to bring such deviation to the attention of the Council so that the necessary steps can be taken for correction or elimination of these unethical practices.

4. By applying for or continuing as a Member, every Member agrees to uphold the ethical standards set out in this Code of Ethics.

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

	Single Grain, weak Platy (2) lo, vfr, Fr	Granular, Angular and Subangular Blocky; Prismatic												Structureless or massive									
		Loess, Outwash, Alluvium Lacustrine(8)						Till (3)						Loess, Outwash, Alluvium, Lacustrine(8)			Till (3)						
		Weak		Moderate, Strong		Weak		Moderate, Strong		Weak		Moderate, Strong		vfr		fi		fi		vfr, fi		fi, vfi	
		vfr, fr	fi	vfr, fr	fi	vfr, fr	fi	vfr, fr	fi	vfr, fr	fi	vfr, fr	fi	vfr, fr	fi	vfr, fr	fi	vfr, fr	fi	vfr, fr	fi	vfr, fr	fi, vfi
Moist Consistence	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O								
Texture																							
1. Fragmental; Ext. or vgrs	>1.00 (4)	N/A (5)	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	
2. s, lcs, ls, grs, cs, grts	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	
3. fs, lfs, csl	.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	
4. sl, fs1, grsl, gr1, grsil,	.75	.75	N/A	.84	N/A	.69	N/A	.75	N/A	N/A	.69	N/A	.75	N/A	N/A	.75	.75	.69	.62	.27	.62	.52	
5. l, sil, vfl, scl, si, vfls, lvfs, grcl	.62	.69	.62	.75	.57	.45	.40	.62	.52	N/A	.45	.40	.62	.52	N/A	.62	.52	.45	.27	.62	.27	N/R (7)	
6. sicl, cl (<35% clay)	.52	.52	.45 (6)	.62	.52	.40	.27 (6)	.52	.40 (6)	.27 (6)	.40	.27 (6)	.52	.40 (6)	.27 (6)	.52	.45 (6)	.27 (6)	.27 (6)	N/R	N/R	N/R	
7. sicl, cl (>35% clay)	N/A	N/A	.40 (6)	.45	.40 (6)	.27 (6)	.20 (6)	.40 (6)	.27 (6)	.20 (6)	.20 (6)	.40 (6)	.27 (6)	.20 (6)	N/A	N/A	.20 (6)	N/R	N/R	N/R	N/R	N/R	
8. sc, sic, clay(9)	N/A	N/A	N/A	N/A	.20	N/A	N/A	N/A	.20	N/A	N/A	N/A	.20	N/A	N/A	N/A	N/A	N/R	N/A	N/A	N/A	N/R	
9. Organics, Fragic, Lithic, Paralitric																							

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.

*By Bill Kreznor, Smithsonian Soils Exhibit Committee*

The soils science community, lead by ISCA, has taken up the task to raise \$10,000 in order to sponsor the Illinois State Soil Monolith. Drummer silty clay loam will join soil monoliths representing the other states and territories in the Smithsonian Institution National Museum of Natural History in Washington, DC. This \$3 million exhibit, situated near the Hope Diamond, will have 6 to 9 million visitors each year. Related web activities and publications will reach millions more.

What an outstanding opportunity to educate the public in the vital role of soil in the life and welfare of earth and its inhabitants!

Now, consider a second opportunity available to each of us as practitioners in our chosen field of study – giving back something to our profession.

Our 26<sup>th</sup> President, Teddy Roosevelt (no small environmental champion), stated “Every man owes a part of his time and money to the business and industry in which he is engaged. No man has a moral right to withhold his support from an organization that is striving to improve conditions within his sphere.”

A host of professional activities engage our time. Many of us volunteer with 4-H groups, plan and conduct workshops and field tours, serve on local planning commissions and advisory boards, hold office in professional societies, and help educate primary and secondary students.

Have you considered a financial pledge to a project that will serve the objectives of our Association in a substantial way? The ISCA, through the ad hoc Smithsonian Soils Exhibit Committee, asks each of its members to consider making a financial commitment toward this effort.

This Committee will be contacting potential corporate and not-for-profit sponsors, and individuals in related professions. However, ISCA and its individual members must lead in this effort. We must commit a part of the resources at our disposal, intellectual and monetary, to give back to our profession.

You are encouraged to learn more about the Smithsonian Soils Exhibit by visiting [www.soils.org/smithsonian](http://www.soils.org/smithsonian) where you will find conceptual drawings, exhibit plans, and related information. You will also find a donation form in PDF format. Donations and pledges should be sent to the Soil Science Society of America (SSSA) in Madison, WI. SSSA will track donations by state on this web site.

As of July 8, Illinois is already “on the board” with \$50 in donations. That puts us ahead of Alaska, Connecticut, Hawaii, Maine, North Dakota, Utah, and Washington, among others. We are woefully behind California, Delaware, Minnesota, Missouri, Nebraska, Texas, and Virginia. Individual or corporate gifts of \$1000 or more will earn special recognition. We have only \$9,950 to go!

Please don't hesitate to contact any member of the Smithsonian Soils Exhibit Committee if you have any questions or fund raising ideas. Committee members are Mike Konen, Bill Kreznor, Bob McLeese, and Dave Rahe.

# ILICA Conservation Expo 2004

- Where** Robert & Richard Lasser Farms  
McLean County · Anchor, IL
- When** August 24 -26, 2004  
Tuesday & Thursday 9:00 AM -4 PM  
Wednesday 9:00 AM -7 PM
- What**
- Free Admission
  - Food
  - Tours
  - Exhibits
  - Working Demonstrations

**ISCA Members:** You can help by volunteering to set up on August 23, 9:30-3:00 and by volunteering to staff the exhibit during the Expo. Contact Mark Bramstedt 815-432-6639 x113 or [mark.bramstedt@il.usda.gov](mailto:mark.bramstedt@il.usda.gov) to volunteer.

*For further information about the Expo, call*

- McLean County Soil & Water Conservation District 309.452.0830 ext.3
- Illinois Land Improvement Contractors Association 815.684.5717
- University of Illinois Extension 309.694.7501.

## Practices at the Expo and Schedule of Activities

Grassed Waterways  
Shallow Water Areas for Wildlife  
Water & Sediment Control Basins (Dry Dams)  
Pond  
Filter Strips  
Wildlife Habitat  
Field Windbreak  
Pattern Tile System  
Soil Pit Display  
Subsurface Field Drainage  
Water Control Structure

### Tuesday, August 24

9:00 AM -Noon ...Tours  
11:00 AM ...Soil Analysis  
1:00 PM -4:00 PM ...Tours

### Wednesday, August 25

9:00 AM -Noon ...Tours  
11:00 AM ...Soil Analysis  
1:00 PM -7:00 PM ...Tours

Thursday, August 26

9:00 AM -Noon ...Tours

11:00 AM ...Soil Analysis

1:00 PM -4:00 PM ...Tours

## Conservation Practices

**Field Windbreak** -Conifers and deciduous trees will be planted to provide habitat for wildlife, conserve energy, and to enhance the visual aesthetics of the farm. This is enrolled into the Conservation Reserve Program.

**Filter Strips** -Strips of permanent vegetative cover will improve water quality by filtering water runoff and removing contaminants. Filter strips also provide wildlife habitat. Filter strips are enrolled into the Conservation Reserve Enhancement Program.

**Grassed Waterway** -A parabolic shaped waterway is under construction to handle water runoff from natural concentrations. The waterway is designed to be seeded with grasses and carry the water runoff at a non-erosive velocity to the pond. Cost share is provided under the Conservation Reserve Program.

**Pond** -This pond will protect water quality by collecting and storing rainfall runoff. In addition, it provides recreational and wildlife opportunities.

**Shallow Water Area for Wildlife (Constructed Wetland)**-This wetland is being installed in order to enhance wildlife habitat. This practice is cost shared under the Continuous Conservation Reserve Program.

**Water &Sediment Control Basin (Dry Dam)** These embankments are built across areas of concentrated flow to temporarily store runoff water. The water is then conveyed off site by an underground tile system. The practice is designed to handle a 10-year storm for the watershed above it. It traps sediment and controls gully erosion. This practice is cost shared under the Conservation Practices Program.

## Displays and Demonstrations

### Soil Pit Display

This site features soils as a medium for on-site disposal, earthen fills, and building site development. There will also be descriptions of soils and geology. A demonstration of an on-site soils evaluation for private sewage disposal will be held at 11:00 am each day.

### Pipeline Safety

A demonstration and discussion of safety procedures when excavating in the vicinity of buried utilities.

### Septic Suitability Analysis

At this site, an analysis will be conducted to determine subsurface loading rates based on soil properties such as texture and structure.

### Septic Tank Installation

A demonstration of how to install a septic tank will be conducted and explained on-site.

## Cooperators

Robert &Richard Lasser  
Illinois Land Improvement Contractors Association  
McLean County Soil &Water Conservation District  
Illinois Department of Agriculture  
Natural Resources Conservation Service  
Farm Service Agency

University of Illinois Extension  
Illinois Soil Classifiers Association  
Illinois Department of Natural Resources  
McLean County Farm Bureau  
The Nature Conservancy

## Using magnetic susceptibility to facilitate more rapid, reproducible, and precise delineation of hydric soils in the midwestern USA

David A. Grimley<sup>a</sup>, Nancy K. Arruda<sup>a</sup> and Mark W. Bramstedt<sup>b</sup>

<sup>a</sup> Department of Natural Resources, Illinois State Geological Survey, 615 East Peabody Drive, Champaign, IL 61820, USA

<sup>b</sup> Natural Resources Conservation Service, 1001 East Grant Street, Suite A, Watseka, IL 60970, USA

This article is being readied for press in *CATENA*, an interdisciplinary journal of soil science, hydrology, and geomorphology focusing on geo-ecology and landscape evolution. The complete article may be accessed at: <http://www.sciencedirect.com/> Enter "hydric soils" in the quick search. Several ISCA members have participated in this study.

### Abstract

Standard field indicators, currently used for hydric soil delineations [USDA-NRCS, 1998. Field indicators of hydric soils in the United States, Version 4.0. In: G.W. Hurt et al. (Ed.), United States Department of Agriculture-NRCS, Fort Worth, TX], are useful, but in some cases, they can be subjective, difficult to recognize, or time consuming to assess. Magnetic susceptibility (MS) measurements, acquired rapidly in the field with a portable meter, have great potential to help soil scientists delineate and map areas of hydric soils more precisely and objectively. At five sites in Illinois (from 5 to 15 ha in area) with contrasting soil types and glacial histories, the MS values of surface soils were measured along transects, and afterwards mapped and contoured. The MS values were found to be consistently higher in well-drained soils and lower in hydric soils, reflecting anaerobic deterioration of both detrital magnetite and soil-formed ferrimagnetics. At each site, volumetric MS values were statistically compared to field indicators to determine a *critical MS value* for hydric soil delineation. Such critical values range between  $22 \times 10^{-5}$  and  $33 \times 10^{-5}$  SI in silty loessal or alluvial soils in Illinois, but are as high as  $61 \times 10^{-5}$  SI at a site with fine sandy soil. A higher magnetite content and slower dissolution rate in sandy soils may explain the difference. Among sites with silty parent material, the lowest critical value ( $22 \times 10^{-5}$  SI) occurs in soil with low pH (4.5–5.5) since acidic conditions are less favorable to ferrimagnetic mineral neof ormation and enhance magnetite dissolution. Because of their sensitivity to parent material properties and soil pH, critical MS values must be determined on a site specific basis.

The MS of studied soil samples (0–5 cm depth) is mainly controlled by neoformed ultrafine ferrimagnetics and detrital magnetite concentrations, with a minor contribution from anthropogenic fly ash. Neoformed ferrimagnetics are present in all samples but, based on high  $X_{FD}\%$  (~5% to 10%), are most prevalent in high pH Mollisols of northeastern Illinois. Scanning electron microscope images display significantly more detrital magnetite alteration in hydric soils, substantiating that reductive dissolution of magnetite (aided by microorganisms) is a primary cause for lower MS. Fly ash comprises 8–50% of the  $>5 \mu\text{m}$  strongly magnetic particles and typically accounts for 5–15% of the total MS signal. The proportion of fly ash in  $>5 \mu\text{m}$  strongly magnetic fractions is greater in hydric soils because of lower natural magnetite contents, possibly combined with historical topsoil accumulation in lower landscapes. Magnetic fly ash particles are also more altered in low MS soils, implying that significant magnetite dissolution can occur in less than 150 years.



# Article Outline

1. Introduction
2. Background: magnetic susceptibility of soils
  - 2.1. Lithogenic factors
  - 2.2. Pedogenic factors
  - 2.3. Anthropogenic factors
3. Methods
  - 3.1. Site selection
  - 3.2. Field
  - 3.3. GIS and statistics
  - 3.4. Laboratory analyses
  - 3.5. Scanning electron microscopy (SEM)
  - 3.6. Contributions to MS calculations
4. Field results
  - 4.1. Meadowbrook Park
  - 4.2. Aurora West
  - 4.3. Spunky Bottoms
  - 4.4. Sand Road
  - 4.5. Pennant Bar
5. Laboratory results
  - 5.1. Particle size analyses
  - 5.2. Frequency-dependent magnetic susceptibility
  - 5.3. Characteristics of strongly magnetic particle ( $>8 \mu\text{m}$  fraction)
  - 5.4. Detrital magnetite alteration
  - 5.5. Fly ash alteration
6. Discussion
  - 6.1. Field
  - 6.2. Laboratory
7. Conclusions
- Acknowledgements
- References

## Proposed Nomenclature Changes for Human-affected Soils

The International Committee on Anthropogenic Soils (ICOMANTH) is proposing changes to the nomenclature that is used for describing human-affected soils. Circular Letter #5 of ICOMANTH may be accessed at <http://clic.cses.vt.edu/icomanth/>.

Some of the key items in the circular include:

Definitions for proposed new terms:

Human Transported Material

Artifacts

Texture terms, including urbic, discrete artifacts, and particulate artifacts

Several terms to be used in lieu of texture

Modification of the definition of fragments

Additions to horizon nomenclature to include:

Master horizon M

Subscript u

And use of prefix symbol ‘

John Galbraith, ICOMANTH Chair, has requested comments to the proposals by September 1. His contact information is:

Dr. John Galbraith

Chair, ICOMANTH

Virginia Polytechnic Institute and State University

239 Smyth Hall (0404)

Blacksburg, VA 24061

e-mail: Ttcf@vt.edu

## ILLINOIS SOIL CLASSIFIERS ASSOCIATION

MINUTES

ISCA COUNCIL MEETING

May 21, 2004

NRCS State Office, Champaign, ILLINOIS

Present:

Mark Bramstedt, President

Mark Stelford, Past President

Bill Kreznor, Vice President

Bruce Putman, President Elect

Chuck Frazee, Treasurer

Chris Cochran, Secretary

Ken Gotsch, Chair of Ethics, Certification, and Membership Committee

John Doll, Chair of the Certification Board

Jim Hornickel, Program Chair

Bob McLeese, guest

The Council Meeting was called to order by President Mark Bramstedt at 10:00 AM.

The minutes of the March 6, 2004 meeting held in Rend Lake were unanimously approved.

Secretary's Report – No report. Jennifer Wollenweber, Christi Sabdo, and Jim Cummins were issued membership certificates.

Treasurer's Report – Chuck Frazee. The ending balance as of May, 20, 2004 was \$12,181.68. Income for the period March 5, 2004 to May 20, 2004 was \$2,143.90. Expenses for the same period were \$2,248.68. The Treasurer's report was unanimously approved.

Certification Board – No report

## STANDING COMMITTEE REPORTS

Constitution, By-Laws & Legislative – Jaimee Hammit chair, Jeff Deniger and Dale Calsyn members. Four tasks 1) Update handbook; 2) Evaluate definition of "experience"; 3) Evaluate definition of "out-of-state" member; 4) Create .PDF version of application for website.

Ethics, Certification & Membership – Ken Gotsch stated we have 6 applicants for membership. John Tandarich-Full; Frank Heisner-Full; Jennifer Wollenweber-Student; Brad Cate-Full; Brad Boggess-Associate; Heidi Peterson-Out-of-State. Sam Werner requested a change to "Out-of-State" membership. Ken will look into the definition of "Out-of-State" member for purposes of membership. Will make a proposal at a future meeting. A nominal fee of reinstatement will be assessed to John Tandarich if he requires a new membership certificate to cover postage and handling.

Finance – No report.

Nominations – No report

Public Relations and Education – Mark Stelford had tour evaluation forms from workshop. Gave to Mark Bramstedt. Workshop was well received.

Program Committee – Jim Hornickel; 2004 Fall Tour will be held in the Illinois River Valley within the Spring Bay quadrangle. Tour will be September 10, 2004. Box lunch will be provided by ISCA for ISCA members and tour leader, all others @\$5-10 to cover lunch and handouts. Jim will check it out. Meet at Eureka Field Office at 10am. Andy Stumpf, ISGS, will lead tour. ISCA will cover tour leader's expenses, if any.

Historian – No report. A list of last year's officers was sent to Roger.

Technical Criteria – Bruce Putman criteria will be published in Newsletter.

State Advisory Commission on Private Sewage Disposal – No report

Smithsonian Project -- Each state has been requested to raise \$10,000 for the display. Exhibit is located near the "Hope" diamond. Expect 6-10 million visitors/year. We have a 3-year window to raise the money. Donations are tax deductible. \$1000 donation will get an engraving on display. ISCA is encouraged to raise at least \$1000 for the exhibit. A motion to set aside \$200 for soliciting purposes was made and approved.

USCSSA Teleconference --

## OLD BUSINESS

2004 National Collegiate Soil Judging Contest – Mark Bramstedt. Contest was held April 22-23, 2004 at Lexington, IL. ISCA hats were given to the winners. Results on Web page.

Constitution/Certification -- John Doll suggested that "Year of Experience" examples be given for Certification. Not an all inclusive list.

Revision of Applications – Date of birth not needed. Committee needs to make recommendation

Web Fee – Motion made and approved to delete annual renewal fee for members effective 2005. Fee is changed to a one time charge of \$10 for new listings.

2005 Annual Meeting – To be held in Central Illinois

Ethics Issue regarding NRCS/ISCA members – Issue raised by Doug Gaines at Spring Meeting. Membership committee looked into it. Rules are currently on the books for NRCS and ISCA to handle most situations. Decision was to publish on an annual basis in the Newsletter ISCA Code of Ethics statement/reminders.

## **NEW BUSINESS**

**Giddings Probe Auction** – Probe to be auctioned. Look into best way to auction it. EBay was suggested as possible method. New, this probe sells for \$16,000. Minimum bid was discussed. Cochran will look into eBay. Motion made and approved to donate proceeds to Smithsonian Project minus expenses.

**Burt Ray Award** – Requirements for award are outdated. A proposal to change the requirement for the award to simply state that the recipient "...is an individual from an Illinois Collegiate Institution who has attained the highest score in the Region 3 Soil Judging Contest." Motion so made and approved.

**NRCS Interns** – 35 interns; 5 are soil scientists. Motion for ISCA to provide \$60 to provide refreshments at an Intern Training Session was made and approved. ISCA would get recognition.

**New Members** – New members identified above were unanimously approved for membership.

**LICA Show** – August 24-26, 2004

The motion was made to adjourn the meeting which was unanimously approved.

The next meeting will be held on July, 23<sup>rd</sup>, 2004 (10 am?) at NRCS State Office, Champaign, IL

The meeting adjourned at 12:10 pm.

Respectfully submitted  
Chris Cochran, Secretary

# **AUCTION!**

**Giddings Trailer-Mounted Soil Sampling, Coring and Drilling Rig**  
Being sold by: *Illinois Soil Classifiers Association*

AUCTION INFORMATION

When: September 14-18

Where: eBay On-line Marketing at <http://www.ebay.com>

GENERAL RIG INFORMATION

Manufacture Date: 3/81  
Model: #15 – SCT GSRP-ST  
Serial Number: 963  
Wisconsin Engine, Model TJD Spec# 319984  
Bore & Stroke – 3 1/4" x 3.0"  
# of Cyl – 2  
Horsepower – 18.2 @ 3600 rpm

INCLUDED EQUIPMENT

(2) 6 foot Kelly bars  
(1) 4 foot Kelly bar  
(2) Anchor augers, but NO CHAINS  
(1) Foot piece to hold bar from sliding down  
Rotating cleaning brush in working condition – brush is rusty  
Extra hydraulic pump belt

ATTRIBUTES

Swinging mast – auger platform pivots to allow multiple cores from same location  
Rotating auger head  
Lights on trailer  
Ball hitch (2.5") with safety chains  
NO spare tire  
3.9 hours (Yep, that's right!) on gauge. Take it for what it is worth!  
NEW battery. (Summer 2003)  
Basic engine tune-up in July 2003 at Heaths in Monticello, Illinois

TRAILER

Trailer is about 12 feet long from tip of ball hitch to end of auger in "down" position  
Rectangular trailer dimensions are roughly 4 feet wide by 6 feet long. When the wheels are counted, then trailer is approximately 6' by 6'.

OTHER

Probe was last started on July 19, 2004 and ran okay. NRCS used it in late May or early June to pull a core with 2" tube. Worked okay. We bored to about 5 to 6 feet in all loess.

Complete unit can be removed from the trailer and mounted in the bed of a standard pickup truck.

ISCA received the unit as a gift from NRCS through the University of Illinois South Farm when they were losing storage place for it. It had been housed inside a crib.

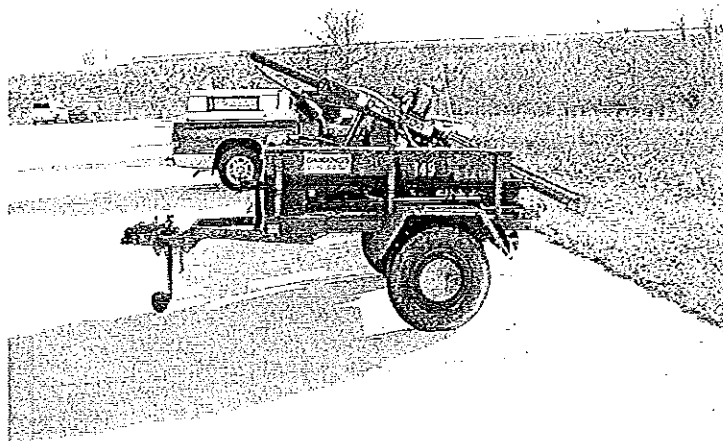
Can possibly be converted to a log splitter.

The unit is available for viewing at:  
USDA Natural Resources Conservation Service  
2118 W. Park Ct.  
Champaign, Illinois 61821

Call Roger Windhorn 217-353-6634 if you need specific information about the rig that is not mentioned here.

For information about how to bid and buy on E-Bay, go to <http://www.ebay.com> . Click on "Learn about eBay" and "How to Bid and Buy"

All proceeds will go towards the *Illinois Soil Classifiers Association* contributions to the Soils exhibit at the Smithsonian Institution's National Museum of Natural History.



## **University of Wisconsin at Platteville Wins 44<sup>th</sup> Collegiate National Soil Judging Contest Hosted by Illinois State University**

The 44<sup>th</sup> National Collegiate Soil Judging Contest was hosted by Illinois State University, April 22-23, 2004. Twenty universities and 112 undergraduate students participated in this event. Pre-contest activities included 20 judged practice pits, a cookout dinner, a lecture by Bob McLeese entitled "The Soils of Illinois", a coaches meeting, and a casino night social activity. During the coaches meeting, Dr. Roger Higgs of the University of

Wisconsin-Platteville and Dr. B.L. Allen of Texas Tech University were recognized for their lifelong dedication and contributions to collegiate soil judging.

Several members of ISCA were involved with the contest. Roger Windhorn served as the "Official Judge" for the contest, but he had help. Ken Gotsch and Mark Bramstedt assisted Roger with judging fifteen practice pits and five contest pits, and Bill Teater and Jim Hornickel judged five practice pits located in Tazwell County. Assisting with grading the scorecards during the contest were Mark Bramstedt, Ken Gotsch, Jim Hornickel, Tessa Chadwick, Larry Gramm, Tom D'Avello, Wiley Scott, Brad Boggess, and Bob, McLeese. Dr. Chuck Rhykerd, Professor Emeritus from Purdue University also assisted with the grading. Dr. Rob Rhykerd was the official host from Illinois State University.

The contest was held at two sites in McLean County just south of Lexington on land owned by Gary Dameron and Jim Killian. The contest was divided into two competitions. On April 22, teams designated 4 students to individually judge each of three soils. The three best scores at each site determined an overall team score from the individual portion of the contest. On April 23, two soils were judged in a team contest with all participants from a school collectively describing each soil. Results of the team judged pits were added to the individual scores to determine the high-overall ranking of the participants.

The top five individuals were:

1. Josh Kamps, University of Wisconsin-Platteville
2. Dennis Vollmer, University of Wisconsin-Platteville
3. Bryan Strong, University of Maryland
4. Bryan Ford, The Ohio State University
5. Jake Engelke, University of Wisconsin-Platteville

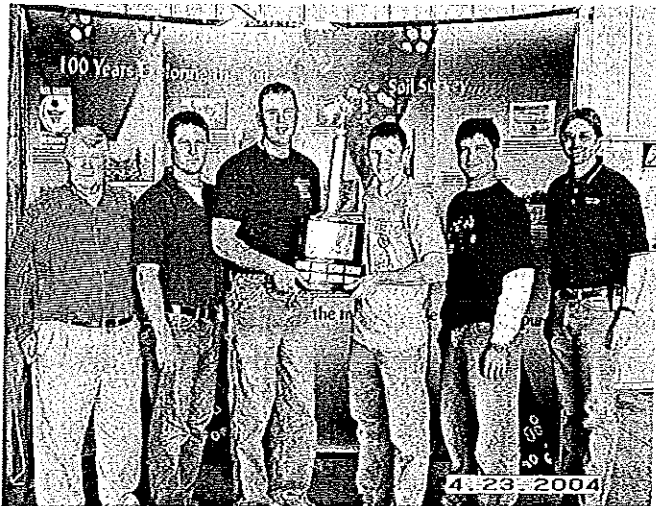
The top five teams from the "team pits" were:

1. Texas A&M University
2. University of Missouri
3. Virginia Tech University
4. The Ohio State University
5. University of Georgia

The top five teams combining individual and team pits were:

1. University of Wisconsin-Platteville
2. The Ohio State University
3. University of Georgia
4. University of Maryland
5. Texas A&M University

The 45<sup>th</sup> National Collegiate Soil Judging Contest will be held at Auburn University in 2005.



First Place Team from 2004 Soil Judging Contest.

## 2004 ISCA Fall Tour

Andy Stumpf, a geologist on staff with the Illinois State Geological Survey, has agreed to lead a geomorphic tour of the Illinois River Valley near Peoria. The tour will concentrate on a just completed soils-parent material mapping project of the Spring Bay quadrangle. Pius Weibel, a geologist with ISGS, and Steve Elmer, a NRCS soil scientist, were also part of the project team and will assist Andy in the tour.

The tour will feature various exposures of sandy terraces, steep side slopes and uplands along the Illinois River.

The tour is scheduled for Friday, September 10<sup>th</sup> and will start at the Eureka Field Office. The field office located 937 W. Center (old U.S. Rt.24).

Registration is from 9:00 to 9:45 am with bagels and drinks.

A preview of the tour is planned between 9:45 and 10:00 am

The tour begins at 10 am with a stop for lunch at Forest Park Nature Area



Lunch will be catered by Sander's Catering, Bartonville, IL. The meal includes either Italian Beef or BBQ Pork on a bun, potato salad, 7-layered lettuce salad, apple or cherry pie, ice tea or lemonade.

The tour will end about 3:00 pm back at the Eureka Field Office.

Because we will be using very busy highways for part of the tour, I have decided to limit the number of vehicles on the tour. Three vans have been reserved for the tour. If you need to drive your personal vehicle on the tour for some reason, you will need to talk to me first.

The tour will go on rain or shine: So bring raincoat just in case. And don't forget the bug repellent.

Parking space is limited at the field office. If you are planning on attending, try to pool together with others in your area that would be coming.

**Everything is free to ISCA members.** For guests and non-members the cost is \$10.

2004 ISCA Fall Tour

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Motels: There are no motels in Eureka. Below are a few motels located surrounding towns.

Bloomington: Country Inn and Suites (ph. 309-828-7177)

Best Inns Suites (ph. 309-827-5333)

Hampton Inn (West) (ph. 309-829-3700)

East Peoria: Hampton Inn (ph. 309-694-0711)

East Peoria Super 8 (ph. 309-698-8889)

Morton: Comfort Inn (ph. 309-266-8888)

Holiday Inn Express (ph. 866-270-5110)

For more information, Contact Jim Hornickel, ISCA Program Chair  
Ph.309-862-0007

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## ISCA Fall Tour

Friday, September 10, 2004

ISCA Member Name: \_\_\_\_\_

(No charge for ISCA members, but please send this form in so I can get an accurate head count for lunch)

Number of guests or non-members \_\_\_\_\_

(\$10 fee for each guest and non-member)

**RSVP no later than September 1, 2004**

Enclosed is my check for \$ \_\_\_\_\_

(Make check out to Illinois Soil Classifiers Association)

Mail to: Jim Hornickel, ISCA Program Chair  
104 Cornell Dr.  
Normal, Illinois 61761

