



# ILLINOIS SOIL CLASSIFIERS ASSOCIATION

## 1996 WINTER NEWSLETTER

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President - Doug Gaines (618) 656-1452  
President Elect - Pat Kelsey (708) 719-2417  
Past President - Steve Zwickler (815) 875-2279  
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### FROM THE PRESIDENTS DESK

This past year has been a busy year for ISCA. The Illinois Department of Public Health resubmitted the proposed sewage code for approval. As of the end of January, the effective date of the new code was to be March 15, 1996. ISCA has been asked by Doug Ebelherr, IDPH to assist in developing a form to be used state-wide for soil evaluations. An ad-hoc committee has been formed to address this idea.

Illinois' Cooperative Soil Survey was highlighted at the Illinois State Fair in August. The State Conservationist presented ISCA with a certificate of appreciation at the Ag Day Celebration for their contribution towards the completion of the once-over statewide Modern Soil Survey. ISCA extended the celebration of the once-over survey to include present and former Illinois soil scientists at The Soil Scientist's Reunion at our annual Meeting March 22, 1996 in Bloomington, Illinois. John Alexander, Earl Voss, and Program Chair - Bob Oja have been very instrumental in organizing this reunion.

On October 26, 1995 Jerry Berning and myself spoke at MAPSS fall meeting on some of our experiences with certification of Soil Classifiers. Following this session they passed their certification proposal. MAPSS certification is very similar to ours except they will have an actual field practicum.

Pat Kelsey (our editor and President-Elect) coordinated the wetlands tour before the SSSA meetings in St. Louis in November. At least a half dozen ISCA members attended the tour with about 50 total attendance.

Some highlights of things to come in 1996 are:

*Annual Meeting/Soil Scientists Reunion*  
*Possible meeting with the Wisconsin Soil Classifiers*  
*Illinois Department of Public Health - IDPH/ISCA*  
*Health Code Workshops*

Sincerely,

Douglas B. Gaines, CPSC  
President, ISCA

### WELCOME NEW MEMBERS

**Brooks Holtey** joins ISCA as an Associate member. He is employed by the Winnebago County Soil and Water Conservation District and conducts soil on-site investigations. He also worked on a soil erosion ordinance for Winnebago County as head of the Urban Committee. Brooks earned his B.S. in Soil Science from the University of Wisconsin-Madison in 1994.

**Charles Nelson** is president of Soil and Environmental Technology, Inc. in Christiansburg, VA. He is no stranger to Illinois. Some may remember Chuck as a member of the Grundy and Jo Davies county project soil surveys in the mid to late 1970s. He has worked for the USDA in both West Virginia and Virginia, and served as a Soil Survey Project Leader with Virginia Polytechnic Institute and State University. He was

active in the formation of ISCA, as well as the West Virginia Association of Professional Soil Scientists. He is a member of the Virginia Association of Professional Soil Scientists, and is certified by that association. Chuck is "welcomed back" to Illinois as a Full Member.

### TREASURER'S REPORT

January 1, 1995 - December 31, 1995

Balance in Account - 01/01/95 \$9,600.49

**Income:**

Annual Meeting	\$ 310.00
Dues	2,370.00
Fall Meeting	-14.00
Interest	330.44
Soil Cards	25.01
Soil Horizon Refund	39.00

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\$3,080.45

**Expenses:**

Administration	\$ 561.89
Membership Handbook	757.04
Stationery	497.40
Annual Meeting Expense	351.50
IMAC Speaker	505.00
Soil Survey Horizons	923.00
Summer Meeting Expense	64.40

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\$3,779.90

Ending Bank Balance - 12/31/95 \$8,901.04

Submitted by:

Charles J. Frazee, CPSC  
Treasurer

### TO THE EDITOR - JOURNAL OF SOIL AND WATER CONSERVATION

*Editors Note: The following letter was submitted to the Journal with a copy to the ISCA Newsletter.*

This letter is in response to Dana Walker's letter in the Nov/Dec issue of JSWC.

Mr. Walker is missing the point!! "Official" state

symbols are designated to recognize the importance of a state's natural resources. Whether the state bird of Illinois is the cardinal or the robin; the state animal the white-tail deer or the red fox; or the state soil Drummer silty clay loam or Ipava silt loam really doesn't matter. What is important is that a bird, animal, and a soil are selected to represent the wildlife and soil resources of the State.

An "official" state soil provides organizations, SWCS, a symbol to use in their educational efforts.

We have not had an "official" state soil designated in Illinois because we have some legislators and other individuals in the state who do not understand the concept of "representing the resource". They are more concerned with whether the state soil is Drummer, or Flanagan, or Ipava instead of recognizing the educational potential in having an "official" state soil -- no matter which soil it is!!

The Illinois Soil Classifiers Association (ISCA) has been pursuing state soil legislation for ten years now. In 1985 they established eight criteria they felt should be considered in selecting a soil to represent the resource. The eight criteria are:

- prairie soil
- prime farmland
- extensive acreage
- "type location" in Illinois
- classification
- long history of use
- name recognition
- parent material (loess)

Seven soils (Cisne, Drummer, Flanagan, Hoyleton, Ipava, Sable, and Saybrook) were nominated by the ISCA membership, and in 1987 ISCA members selected Drummer, by a 2 to 1 margin, over Cisne to represent Illinois' soil resources.

After legislative attempts to officially designate Drummer as the state soil failed in 1990 and again in 1991, ISCA went back to the drawing board to garner additional support for another legislative try. In 1992, the Illinois Association of Vocational Agricultural Teachers sponsored a state soil election in their classrooms. Drummer was a 2 to 1 winner over Sable in those elections. In 1993 at the FFA State Convention, Ipava nosed out Drummer as the favorite of FFA delegates. At the 1993 statewide 4-H Youth Conference, Drummer was selected by the 4-Hers as

the soil to be designated state soil.

Drummer seems to have broad support as the soil to best represent the soil resources of Illinois. Mr. Walker has his favorite soil, and it's not Drummer. But, that's okay. Let's put opinion and emotion behind us and designate an "official" state soil for Illinois!

Sincerely,

Robert L. McLeese

**23RD ANNUAL NORTHERN ILLINOIS  
ONSTIE WASTEWATER  
CONTRACTORS WORKSHOP**

Sponsored by:

*The Illinois Environmental Health Association  
The Illinois Onsite Wastewater Association  
The Illinois Department of Public Health  
The DuPage County Health Department*

March 7 and 8, 1996  
Pheasant Run Resort  
St. Charles, Illinois

**Schedule for Main Sessions, New Orleans Ballroom**

**Thursday, March 7, 1996**

9:00am-9:30am	Welcome, Explanation of New Format. Bruce Sims, Master of Ceremonies.
9:30am-10:30am	Keynote Address: "The Treatment and Disposal of Wastewater in Soils." Dr. A.R. Rubin, Ph.D., North Carolina State University.
10:30am-11:00am	Break
11:00am-Noon	Keynote Address (continued): "The Treatment and Disposal of Wastewater in Soils." Dr. A.R. Rubin, Ph.D., North Carolina State University.
Noon-1:00pm	Lunch on your own.
1:00pm-1:45pm	"Pump Curves Explained: How

to Pick the Right Pump for the Job." Garry Enyart, Sta-rite Pump Company, Sump and Sewage Pump Manufacturers Association.

1:45pm-2:30pm	"Drip Irrigation Systems." Tim Taylor, R.S., Hydro-Action, Inc.
2:30pm-3:00pm	Break
3:00pm-3:45pm	"Wastewater Sampling Procedures." Jim Royer, Champaign-Urbana Sanitary District.
3:45pm-4:30pm	"Trickling Filter Systems." Jim Cooper, Factory Representative, Ekofinn LTD.
4:30pm-5:00pm	"Mortgage Survey Forum." Kathie Worden, R.S., Kane County Health Department.
5:00pm-6:00pm	Closed
6:00pm-10:00pm	New Orleans Ballroom reopens for food, drink and entertainment!

**Friday, March 8, 1996**

9:00am-9:15am	Welcome, Explanation of New Format. Bruce Sims, Master of Ceremonies.
9:15am-10:00am	"Could You Survive a D.O.T. Audit." Jim Plyman, D.O.T. Compliance and Safety Industries.
10:00am-10:30am	Break
10:30am-11:15am	"Could You Survive a D.O.T. Audit." Jim Plyman, D.O.T. Compliance and Safety Industries.
11:15am-Noon	"Septic Tank Additives." Speaker TBA, National Association of Waste Transporters.

Noon-1:00pm Lunch on your own.

1:00pm-1:30pm "Prescriptive vs. Performance Based Codes." Bennett Burkes, P.E.

1:30pm-2:30pm Panel Discussion: Prescriptive vs. Performance Based Codes:

Panelists: **Bennett Burkes**, P.E., Wisconsin  
**Doug Ebelherr**, R.S., Illinois Dept. of Public Health  
**Bruce Sims**, Illinois Onsite Wastewater Association  
**Kurt Bihler**, Liquid Waste Systems, Inc.  
**Tony Smithson**, R.S., Lake County Health Department

Moderator: **Paul Chase**, R.S., DuPage County Health Department

2:30pm-3:00pm Raffle, Closing Remarks.

→ Questions concerning registration or other inquiries should be directed to:

**Paul Chase**  
**DuPage County Health Department**  
 111 N. County Farm Road  
 Wheaton, IL 60187  
 (708) 682-7979

## CANDIDATES FOR ISCA OFFICES

### For President

**Jerry Berning** serves as a zone soil scientist for 9 counties in the Metro East-St. Louis area for NRCS. He is a charter member of ISCA and has served on various committees. Jerry was president in 1988. Having served one term as president, he encourages those who have not had the opportunity to get involved. Jerry has mapped in several counties in Illinois.

**Ronald Collman** is an alumnus of the University of Illinois. He received a B.S. in Agronomy/Soils in 1989. Ron is a soil scientist with the NRCS-MLRA update in Adams County, Illinois. He has worked for the Missouri Department of Natural Resources as a Soil Scientist in Southwest Missouri, mapping soils.

Ron is a certified crop advisor and is applying for certification through the ISCA and ARCPACS.

### For Vice President

**Steve Suhl** began his career as a soil scientist with the USDA NRCS in 1980 on the Morgan-Scott County Soil Survey, and has worked on the Christian, Pike, Schuyler, and Fulton County Soil Surveys. Steve has served on the Constitution and By-Laws Committee, including two years as chair; Ethics, Certification and Membership Committee for two years, and on the Finance Committee for three years, one year as chair. Steve has been an ISCA member since 1988 and is ARCPACS and ISCA certified as a professional soil classifier. In 1991 Steve served as Vice President of the ISCA.

**Dana Grantham** is an alumnus of the Southern Illinois University. He received his BS in Agriculture in 1958 and served in the US Army from 1959-1962. He began his soil scientist career in 1962 with the SCS-NRCS. Dana is a charter member of ISCA and is ARCPACS and ISCA certified as a professional soil classifier. After 33 years of service, Dana retired from the NRCS in August of 1995 to return home to the family farm in Montgomery County, Illinois.

### For Treasurer

**Emil Kubalek** is an alumnus of the University of Illinois. He received his BS in Agricultural Education in 1955 and his MS in Agronomy in 1991. His thesis topic was "Saturated Hydraulic Conductivity of a Biosequence and Hydrosequence of Soils in Illinois." He retired in 1988 from a 33 year career with the SCS, to begin work for the Rock Island Health Department. In 1990 he began his own consulting business. He is a charter member of ISCA and is a certified soil classifier.

**Charles Frazee** received his Ph.D. from the University of Illinois in 1969. He was an assistant professor at South Dakota State University from 1969 to 1975. After leaving SDSU, Charles returned to farming and soil consulting work. He is a charter member of the ISCA and was treasurer of the first certification board. He is certified by the ISCA and is a member of ASA, SSSA, and SWCS.



# ILLINOIS SOIL CLASSIFIERS ASSOCIATION

## 1996 VERY LATE SPRING NEWSLETTER

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President - Pat Kelsey (708) 719-2417  
President Elect - Gerald Berning (618) 465-9336  
Past President - Doug Gaines (618) 656-1452  
Vice President - Dana Grantham (217) 532-5285  
Secretary - Ward Lenz (618) 532-2887  
Treasurer - Chuck Frazee (217) 628-3518  
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(217) 432-2378  
Certification Board Secretary - Tonie Endres  
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Email: pdkelsey@xnet.com

*As of Aug. 3, 1996, my area code will become 630.*  
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### ISCA ON-LINE (The Bully Pulpit)

Soil Science is in an exciting transition from data gathering to providing vital information for the proper management of our environment. Today in Illinois, there are more soil scientists working on site specific investigations than ever before. The challenge that we face is learning to take our knowledge and our vast amounts of data and produce meaningful interpretations for all soil information users. Traditionally, we have had a single product: the published soil survey. With new challenges and opportunities in urban and rural fringe areas, our products must change to meet user needs. Toward that end, we are beginning an ambitious program to make soils information in Illinois available in many formats. CD-ROM will be the published soil survey of the MLRA Updates. However, ISCA is going further by developing a CD-ROM of the Soils of Illinois. Additionally, we are developing a Home Page on the World Wide Web. As soil scientists, we must look for and develop new products that convey information based upon the vast data resources that we have. As the 21st century approaches, we have an

opportunity to lead in the dissemination and use of soils information. In order to lead, we will need the assistance of all ISCA members to develop and promote the use of soils data. We need your help in gathering information and preparing it for the many audiences that need soils information. Please call or drop me a line if you can help with the ambitious projects we have planned this year.

Pat Kelsey, President

### WELCOME NEW MEMBERS

**LeAnn Colburn** is a soil scientist employed by the USDA-NRCS. She is currently working out of the Naperville MLRA office. She earned a B.S. and M.S. degrees from Mississippi State University in Animal Science and Soil Science, respectively. LeAnn also has completed two semesters toward a Ph.D. at the University of Florida. She is a member of the Soil and Water Conservation Society and the American Society of Agronomy. LeAnn joins as an Associate Member.

**Thomas Copenhaver** has been with the Lake County Health Department since August of 1990. He conducts soil on-site investigations and interprets soil properties for on-site wastewater disposal and land use planning decisions. He earned his B.S. in Soil Science from the University of Wisconsin-Stevens Point in 1982. Tom is one of a handful of ISCA members who is also a Registered Sanitarian with the National Environmental Health Association. He is Certified as a Soil Scientist by ARCPACS. Now all Tom would need to "hit for the cycle" would be certification by ISCA, which he is eligible to pursue because he joins ISCA as a Full Member.

**D. Rex Mapes** returns to ISCA as an Out-of-State Member. He was instrumental in the formation of ISCA as a charter member and its first President. He earned his B.S. in Agronomy from the University of Illinois. He contributed to seven project soil surveys in Illinois before being promoted to Assistant State Soil Scientist in Ohio. He subsequently moved to the National Soil Survey Center in Lincoln, NE where he provided quality assurance at the MLRA level in the

southeastern U.S. Rex is ARCPACS certified, and a member of both the Soil Science Society of America and the Association of Ohio Penologists. He retired from the USDA in 1994.

**James Mulcahy** joins ISCA as an Associate Member. He is employed by the Boone County Soil and Water Conservation District, conducting soil on-site investigation. Jim earned a B.S. in 1992 and a M.S. in 1994 in Soil Science from the University of Wisconsin-Madison and Montana State University-Bozeman, respectively. Jim is a member of the Soil Science Society of America, and is a Wisconsin Certified Soil Tester.

**Mark Stelford** is a Ph.D. candidate at Northern Illinois University (NIU). His research interests include spatial variability of crop yields as a function of soil properties and microclimate. His B.S. and M.S. were both earned at NIU. He is a member of the Soil Science Society of America. Mark's academic pursuits have currently landed him in Denmark, and we look forward to hearing of his international experience. He joins ISCA as a Student Member.

### TAZEWELL COUNTY CODE

The Tazewell County Soil Properties Subcommittee held 7 meetings in 1995 to craft a county ordinance providing soils investigations as an option in determining soil suitability for septic systems. The committee made its final recommendations to the Land Use Plan Advisory Committee on January 26, 1996.

The Soil Properties Subcommittee members included **Chairperson Pat Welch**, Director of the Tazewell County Health Department; **SWCD Tom Clements**, R.C. Pedin Field Office; **NRCS Ken Gotsch**, Soil Scientist, Taylorville; and other representatives from the local county zoning office, Tri-county Regional Planning Office, Local developers and contractors, and the City of Pekin.

A special thanks goes to Bill Kreznor and Duray Potter for their presentation in explaining the procedures and resulting benefits of utilizing soil investigations. The subcommittee is confident the incorporation of soils as a method to determine suitability for septic systems will be approved, and that the soils option will be more attractive to potential homeowners than percolation tests.

What does the mean for certified ISCA members? Continue to watch for further developments as your

assistance in making these on-site soil determinations will be needed in the near future for the Tazewell County area.

Ken Gotsch

### CALL FOR SLIDES

Tom D'Avello, USDA-NRCS, is looking for color slides of the following soils profiles to add to the "Soils of Illinois CD-ROM". These CD-ROM will be distributed to schools throughout the state for educational purposes.

**Deep Loess:** Tama, Muscatine, Sable, Herrick, Virden, Fayette, Rozetta, and Alford.

**Loess over Illinoian Till:** Piasa, Cisne, Hoyleton, Ava, Wynoose, Hickory, and Bluford.

**Loess over Wisconsinan Till:** Drummer, Flanagan, Catlin, Dana, Birkbeck, and Camden.

**Wisconsinan Till:** Saybrook, Varna, Elliott, Ashkum, Swygert, Miami, Morley, Blount.

**Wisconsinan Outwash:** Warsaw, Wea, Lorenzo, Jasper, Sparta, Onarga, LaHogue, Plano, Plainfield, Selma, Casco, Fox, and Martinsville.

**Wisconsinan Lacustrine:** Harco, Patton, Montgomery, Milford, Martinton, Markland, Colp, and DelRey.

**Residual:** New Glarus, Palsgrove, Goss, Wellston, Zanesville, Berks, Hosmer, Grantsburg, Derinda, Dubuque, and Lamoile.

**Alluvial:** Wakeland, Lawson, Sawmill, Beaucoup, Belknap, and Bonnie.

Please send slides for consideration to:  
Tom D'Avello, 1902 Fox Drive, Champaign, IL 61820

### 1996 ELECTION RESULTS

President-Elect	Gerald Berning
Vice President	Dana Grantham
Treasurer (3-yr term)	Charles Frazee

## 1996 ISCA OFFICERS AND COMMITTEE CHAIRS

President	Pat Kelsey
President-Elect	Gerry Berning
Past-President	Doug Gaines
Vice President	Dana Grantham
Secretary	Ward Lenz
Treasurer	Chuck Frazee
Finance	Dana Grantham
Cons. & By-Laws	Sam 'The Big Tuna' Indorante
Membership, Ethics, & Certification	Bill Kreznor
Public Relations & Education	Don Fehrenbacher
Nominations	Steve Zwicker
Certification Board	Mark Bramstedt
Newsletter	Pat Kelsey
Program	Bob Oja
State Soil	Bob McLeese
Ad-Hoc Historic	Les Bushue

## CERTIFICATION BOARD MEMBERS

Mark Bramstedt	Tonie Endres
Emil Kubalek	Mary Kluz
Matt McCauley	Scott Wegman

## IDPH SOIL EVALUATION FORM

Included in this newsletter is the new format for the soil evaluation form that our ad-hoc committee has come up with for optional use in the State of Illinois (Last Page of Newsletter). Mr. Doug Ebelherr, IDPH, liked the table format for reporting. The order of information on the table coincides with the normal reporting for the USDA according to the Soil Survey Manual. Some have comments concerning combining the mottles and coatings for this form. There is some concern about reporting too much information to county officials. We have hashed this over and decided the specific county's can make this decision. That is partly why this is being submitted to the state as an optional form. We don't want to stifle a soil scientist's ideas or methods outside of the minimum requirements. This form can either be two pages or one page front and back. If you have any comments or questions please call or write me at 8611 Wieseman Road, Worden, Illinois 62097 Phone: (618) 459-8619). We need comments on this format by July 12 so we can submit this to IDPH.

Doug Gaines

## MEMBERSHIP DRIVE

As president, I would like to challenge all current ISCA members to actively recruit one new member to ISCA during 1996. As can be seen in this Newsletter, we have attracted a number of new/returning members to ISCA. Unfortunately, there are a number of soil scientists actively employed in agencies or private practice who are not currently ISCA members. We need encourage all practicing soil scientists in Illinois to join ISCA and then to become certified!

You may be working with someone right now who could benefit from ISCA membership. Please take a moment to talk with them about the role ISCA plays in cooperative soil survey, on-site investigations, and the certification of qualified soil classifiers. A copy of the ISCA membership application is attached to this newsletter. Please pass it on to one your colleagues who will benefit from ISCA membership.

## SUMMER MEETING

ISCA has been planning a joint meeting with Wisconsin for late this summer. UNFORTUNATELY, the Wisconsin Society of Professional Soil Scientists recently notified Bob Oja and Steve Elmer that they would not be holding a meeting with Illinois this year. This information just came to the program committee so they will begin planning a different venue soon.... Stay Tuned....

## OUR CUPS RUNNETH OVER

Beautiful ISCA Coffee Cups " Celebrating the Next Generation" available for purchase. Cost \$5.00 each including shipping. To purchase, Contact Bob Oja, McHenry County SWCD, 1143 N. Seminary, Woodstock, IL 60098 Phone: (815)338-0099.

## IDPH SEWAGE CODE WORKSHOPS

IDPH and ISCA will hold regional meetings for local health departments to provide training in the implementation of the soil evaluation portion of the revised state code. The meetings will be held as follows.

Sept. 12	Rockford
Sept. 20	Edwardsville
Sept. 26	Peoria

For more information on these meetings, contact Don Fehrenbacher (815) 462-3106.

# SOIL EVALUATION REPORT

in accordance with 77 Illinois Administrative Code, Chapter 1, Subchapter r, Section 905

Report prepared for:

NAME: \_\_\_\_\_

INVESTIGATION NO: \_\_\_\_\_ DATE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PROPERTY OWNER: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

COUNTY: \_\_\_\_\_

SITE LOCATION: \_\_\_\_\_

## Detailed Soil Description / Interpretations - Site 1

Depth (in)	Matrix Color <sup>1</sup>	Texture	Mottles <sup>1</sup>	Structure	Consistence	Coatings <sup>1</sup>	Notes	Permeability & Loading Rate <sup>2</sup> in (G/D/Ft. <sup>2</sup> )

Limiting Layer: \_\_\_\_\_ Depth: \_\_\_\_\_ Slope: \_\_\_\_\_

Probable Soil Type & Classification: \_\_\_\_\_

Physiography: \_\_\_\_\_

Probable drainage class: \_\_\_\_\_ ( ) observed saturation at depth (in) \_\_\_\_\_ Compaction ( ) yes ( ) no (depth): \_\_\_\_\_

Remarks: \_\_\_\_\_

## Detailed Soil Description / Interpretations - Site 2

Depth (in)	Matrix Color <sup>1</sup>	Texture	Mottles <sup>1</sup>	Structure	Consistence	Coatings <sup>1</sup>	Notes	Permeability & Loading Rate <sup>2</sup> in (G/D/Ft. <sup>2</sup> )

Limiting Layer: \_\_\_\_\_ Depth: \_\_\_\_\_ Slope: \_\_\_\_\_

Probable Soil Type & Classification: \_\_\_\_\_

Physiography: \_\_\_\_\_

Probable drainage class: \_\_\_\_\_ ( ) observed saturation at depth (in) \_\_\_\_\_ Compaction ( ) yes ( ) no (depth): \_\_\_\_\_

Remarks: \_\_\_\_\_



Detailed Soil Description / Interpretations - Site 3

Depth (in)	Matrix Color <sup>1</sup>	Texture	Mottles <sup>1</sup>	Structure	Consistence	Coatings <sup>1</sup>	Notes	Permeability & Loading Rate <sup>2</sup> in (G/D/Ft. <sup>2</sup> )

Limiting Layer: \_\_\_\_\_ Depth: \_\_\_\_\_ Slope: \_\_\_\_\_

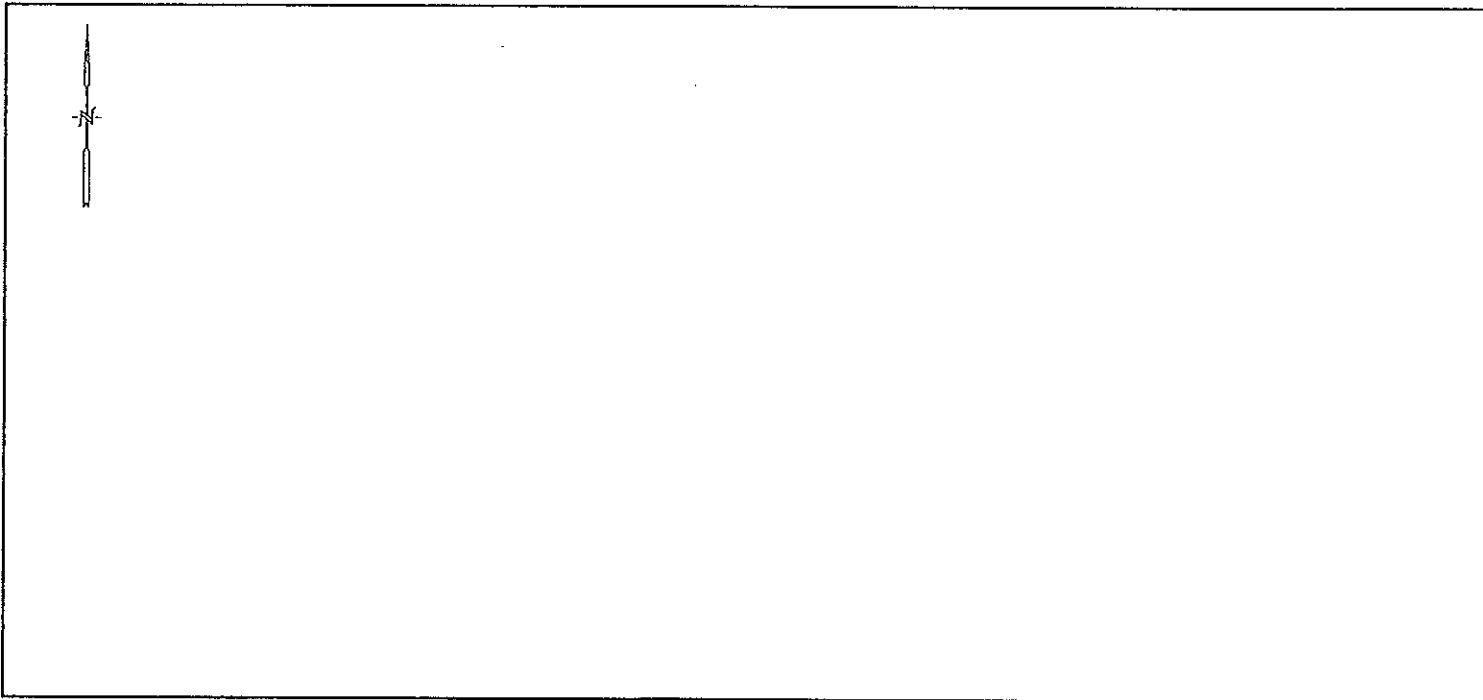
Probable Soil Type & Classification: \_\_\_\_\_

Physiography: \_\_\_\_\_

Probable drainage class: \_\_\_\_\_ ( ) observed saturation at depth (in) \_\_\_\_\_ Compaction ( ) yes ( ) no (depth): \_\_\_\_\_

Remarks: \_\_\_\_\_

Site Map



Report Prepared By: (print name) \_\_\_\_\_ Phone: \_\_\_\_\_

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

Signature: \_\_\_\_\_

<sup>1</sup> Soil color designations, Munsell Soil Color Charts, (1992).

<sup>2</sup> Private Sewage Disposal Licensing Act and Code, Illinois Department of Public Health, Appendix A Illustration M (1999)

**ILLINOIS SOIL CLASSIFIERS ASSOCIATION  
OFFICIAL MEMBER MAILING LIST**

<u>Name</u>	<u>Address</u>	<u>City</u>	<u>State</u>	<u>Zip</u>	<u>Phone Number</u>
John Alexander	2607 Melrose Dr.	Champaign	IL	61820	217-356-4649
Kenneth Anderson, Jr.	47W990 Lasher Rd.	Elburn	IL	60119	708-232-3495
Gerald Berning	2811 Brown St.	Alton	IL	62002	618-465-9336
Mark Bramstedt	320 East Locust	Watseka	IL	60970	815-432-2378
Paul Brown	215 N Washington St.	Pontiac	IL	61764	815-842-2024
Lester Bushue	1911 Scottsdale Dr.	Champaign	IL	61821	217-359-7447
Dale Calsyn	117 Laurie Lane	Oswego	IL	60543	708-554-3965
Paul Chase	111 N. County Farm Rd.	Wheaton	IL	60187	
Wilbur Chrudimsky	107 Veronica May	Normal	IL	61761	309-452-4268
Christopher Cochran	4542 W. Lord Redman Loop	Tucson	AZ	85741-4040	602-670-6602
LeAnn Colburn	1037 Howell Place #705	Aurora	IL	60505	708-897-5753
Ronald Collman	813 N. 17th St.	Quincy	IL	62301	217-228-2410
Thomas Copenhaver	3010 Grand Ave.	Waukegan	IL	60085	847-360-6740
Tom D'Avello	1902 Fox Dr.	Champaign	IL	61820	217-398-5253
Robert Darmody	1102 S. Goodwin Ave	Urbana	IL	61801	217-333-9489
John Doll	1702 Harrington Dr.	Champaign	IL	61821	217-398-3040
Doug Ebelherr	525 W. Jefferson St.	Springfield	IL	62761	
Darryl Einhorn	112 Algonquin Rd.	Barrington	IL	60010	
Tonie Endres	RR 1 Box 402	Lawrenceville	IL	62439-9795	618-943-3181
Don Fehrenbacher	34 Smith Rd.	Frankfort	IL	60432	815-462-3106
Joe Fehrenbacher	1616 Sheridan Rd.	Champaign	IL	61821	217-356-6785
Bryan Fitch	1100 South 11th St.	Herrin	IL	62948	618-942-5124
Leon Follmer	808 Vista Dr.	Savoy	IL	61874	217-359-2090
Charles Frazee	RR1 Box 14B	Divernon	IL	62530	217-628-3518
Doug Gaines	8611 Wieseman Rd.	Worden	IL	62097	618-459-8619
Ken Gotsch	RR3 Box 246	Shelbyville	IL	62565	217-774-5182
Larry Gramm	1330 N. Madison	Woodstock	IL	60098	815-337-9247
Dana Grantham	RR 1 Box 9	Butler	IL	62015	217-532-5285
Gary Greenwood	9026 Blueridge Rd.	Alton	IL	62002	618-372-3380
Gary Hamilton	RR1 Box 217	Herrin	IL	62948	618-942-3911
Karla Hanson	P.O. Box 466	Waterman	IL	60566	309-662-3301
Scott Harding	9833 Lower Marine Rd.	Marine	IL	62061	618-624-6969
Jim Henricks	1988 Jeannette Lane	Springfield	IL	62702	217-522-5662
Brooks Holtey	4833 Owen Center Rd.	Rockford	IL	61101-6007	815-587-4249
James Hornickel	104 Cornell Dr.	Normal	IL	61761	309-862-2500
Bruce Houghtby	4314A Crystal Lake Rd.	McHenry	IL	60050	815-344-4020
Sam Indorante	150 Pleasant Rd. Room 244	Carbondale	IL	62901	618-453-5579
Jane Johnson	602 W. Quincy	Griggsville	IL	62340	217-833-2049
Don Johnson	713 S. Lynn St.	Champaign	IL	61820	
James Kupustiak	9575 W. Higgins Rd.	Rosemont	IL	60018-5625	
Dennis Keene	1202A Silver St.	Urbana	IL	61801	217-337-1830
Patrick Kelsey	711 Wilder St.	Aurora	IL	60506	708-896-2909
Linus Kiefer	RR3 Box 177A	Watsoka	IL	60970	815-432-5741
Albert Klingbiel	2413 Countyside Dr.	Silver Springs	MD	20905	301-384-5188
Mary Kluz	P.O. Box 333	Oregon	IL	61061-0333	815-732-4333
Michael Konen	ISU, 1017 Agronomy	Ames	IA	50011-1010	
Willian Kreznor	904 Powers Rd.	Woodstock	IL	60098-2702	815-338-2362
Emil Kubalek	3408 56th St. Place	Moline	IL	61265	309-797-3208

<u>Name</u>	<u>Address</u>	<u>City</u>	<u>State</u>	<u>Zip</u>	<u>Phone Number</u>
Michael Kuhn	929 N. Hickory St.	Waukegan	IL	60085	847-249-1509
Carol Latowski	P.O. Box 397	Sharon	IL	53585	414-736-9485
Randall Leeper	103 Bethesda Dr.	Bellville	IL	62223	618-939-7545
Ward Lenz	5746 LRC Road	Waterloo	IL	62298-6554	618-939-4986
Michael Lilly	214 Dublin Court	Brandon	MS	39042	601-965-5208
Charles Love	615 Timberhill Dr.	Chatham	IL	62629	217-483-4227
D. Rex Mapes	41 Highmeadows Circle	Powell	OH	43065	614-548-6788
Scott Martin	RR4 Box 367	Murphysboro	IL	62966	618-687-2513
Mark Matusiak	707 S. Second St.	St. Charles	IL	60174	708-513-6113
Matt McCauley	711 N. DuQuoin St.	Benton	IL	62812	618-438-5872
Mark McClain	1300 Drawbridge Lane	Lafayette	IN	47905	317-474-4647
McHenry Co. SWCD	P.O. Box 168	Woodstock	IL	60098	
Robert McLeese	1076 Bucks Pond Ln.	Monticello	IL	61856	217-398-5286
Patrick McNulty	2200 N. Seminary	Woodstock	IL	60098	
Laura Merkel	15760 E. Alameda Pkwy	Aurora	CO	80017	719-743-2642
Clifford Miles	816 S. Brown Ave.	Terra Haute	IN	47803	812-235-2211
James Mulcahy	N7842 Hillside Dr.	Whitewater	WI	53190	414-473-1897
Charles Nelson	855 Murrary St.	Christiansburg	VA	24073	540-381-0309
Robert Oja	230 N. Fifth Ave	Walworth	WI	53184	815-338-0099
Kenneth Olson	3009 Kyle RR1	Urbana	IL	61801	217-384-4335
Dale Parker	6601 Grand Teton Plaza	Madison	WI	53719	
John Paschke	591 S. May Ave.	Kankakee	IL	60901-3330	815-932-6631
John Pearse	RR1 Box 83	West Union	IL	62477	618-544-3914
Don Phillips	RR1	Shobonier	IL	62885	618-846-2202
Gary Pomeranke	5649 E. Buckeye Rd.	Madison	WI	53716	
Bruce Putman	1200 Portage Lane	Woodstock	IL	60098	815-338-6218
David Rahe	828 S. Oak St.	Hillboro	IL	62049	217-532-6887
Loyal Reinebach	2440 E. La Jolla Dr.	Tempe	AZ	85282	
Robert Rhynas	1212 Stonebridge Dr.	Howards Grove	WI	53083	815-544-8951
Richard Rust	1922 Autumm St.	St. Paul	MN	55113	612-644-9514
Larry Sabata	307 6th St. East	Ada	MN	56510-1456	618-327-8649
Wiley Scott	411 N. Dorchester Dr.	Mahomet	IL	61853	217-586-4233
Martha Sheppard	RR2	Pearl	IL	62361	217-829-4409
Randy Staley	RR2 Box 298	Clay City	IN	47841	812-939-2752
Mark Stelford	12140 Aldrich Rd.	Sycamore	IL	60178	815-895-9666
Steve Suhl	101 Deer Creek Rd.	Rochester	IL	62563	217-498-8511
John Tandarich	53 W. Jackson Blvd. #1015	Chicago	IL	60604	312-922-0777
William Teater	P.O. Box 655	Tremont	IL	61568	309-925-5905
Robert Tegeler	124 Joan Drive	Divernon	IL	62530	217-235-4223
Earl Voss	4009 Farhills Dr.	Champaign	IL	61821	217-352-3089
Donald Walker	RR2 Box 178	Carthage	IL	62321	217-746-8601
Michael Walker	1512 Elder Dr.	Aurora	IL	60506	708-897-5753
Donald Wallace	643 N. Kansas	Edwardsville	IL	62025	618-656-8230
Scott Wegman	3432 Fox Hill Dr.	Aurora	IL	60504	708-790-4010
Benny Weiss	755 Walnut Grove Rd	Harrisburg	IL	62946	618-252-4292
Gloria Westphal	31849 117th St.	Twin Lakes	WI	53181	414-862-2232
Roger Windhorn	1902 Fox Drive	Champaign	IL	61820	217-398-5280
Fred Young	Dept. Agron., 23 Mumford	Columbia	MO	65211	
Steven Zwicker	772 Mayfair Drive	Princeton	IL	61356	815-875-2279

## LETTERS FROM COLLEAGUES

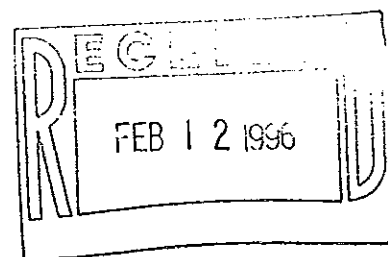
The following letters were received as a result of invitations which were sent for the ISCA Soil Scientist Reunion.



TEXAS A&M UNIVERSITY  
Soil & Crop Sciences  
College of Agriculture and Life Sciences  
College Station, Texas 77843-2474  
FAX (409) 845-0456

January 30, 1996


Patrick Kelsey, CPSC  
President-Elect  
Illinois Soil Classifiers Association  
Route 53  
Lisle, Illinois 60532



Dear Pat:

Thank you very much for the invitation to participate in the ISCA. I'm sure this will be a good meeting and the focus is certainly on target. Unfortunately, I will not be able to accept the invitation because of prior travel and university commitments here.

Sincerely,

  
Larry Wilding

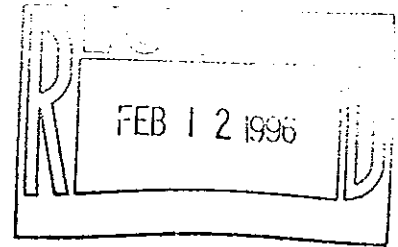


# North Carolina State University

College of Agriculture and Life Sciences  
Academic Affairs, Extension & Research

Department of Soil Science  
Box 7619, Raleigh 27695-7619  
(919) 515-2655  
FAX: (919) 515-2167

February 1, 1996



Patrick Kelsey  
Morton Arboretum  
Illinois Soil Classifiers Association  
Route 53  
Lisle, IL 60532

Dear Mr. Kelsey:

Thank you for the invitation to the 21st Annual meeting and reunion of the Illinois Soil Classifiers Association. Unfortunately I will not be able to attend.

Please give my regards to Chuck Frazee and my mentor John Alexander and if they are in attendance.

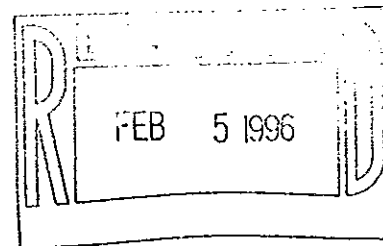
Sincerely,

A handwritten signature in cursive script that reads "Keith Cassel".

D. K. Cassel  
Professor of Soil Science



TEXAS A&M UNIVERSITY  
Soil & Crop Science  
College of Agriculture and Life Science  
College Station, Texas 77843-2474  
FAX (409) 845-0456



409 845-3041

January 26, 1996

Mr. Patrick Kelsey, President-Elect  
Illinois Soil Classifiers Association  
Morton Arboretum  
Route 53  
Lisle, Illinois 60532

Dear Mr. Kelsey,

Thanks for the invitation to attend the March 22 Annual Meeting and Reunion. I worked in Illinois from 1954-56 on the LaSalle county survey with John Alexander while finishing my BS and MS under R. T. Odell, and on the Osceola county survey in Michigan in 1957. I received my PhD under Frank Riecken at Iowa State and worked on the Crawford county Iowa survey for two years 1960-61. In 1963 I returned to the University of Illinois where I advanced to Professor before leaving for the Department Chairman position at the University of Missouri in 1973. I have been Professor and Head of the Soil and Crop Sciences Department at Texas A & M University since 1980.

Please tell all my old colleagues hello for me. The ones I keep up with are John Alexander, Joe Fehrenbacher and Don Wallace. Be sure and tell Don hello. I received a nice letter from him in November.

I am sorry I won't be able to attend but I have committed myself to giving a paper at the IV International Symposium on "Plant - Soil Interactions at Low pH." I will be in Brazil from March 12 to 25, 1996 attending this meeting and learning more about the extensive soils of the Cerrado.

Give my best to everyone in attendance and invite me to a future meeting.

Sincerely yours,

A handwritten signature in cursive script that reads "Ed Runge".

Ed Runge  
Professor and Head



ILLINOIS SOIL CLASSIFIERS ASSOCIATION  
APPLICATION FOR MEMBERSHIP

Please print or type

I. NAME \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_

TELEPHONE \_\_\_\_\_ Home \_\_\_\_\_ Work \_\_\_\_\_  
(Please check one)

II. MEMBERSHIP CLASS (Check membership class you believe you qualify for. Final status will be determined by the Ethics, Certification, and Membership Committee and Executive Council.)

\_\_\_\_\_ Full Member

\_\_\_\_\_ Associate Member

\_\_\_\_\_ Student Member

\_\_\_\_\_ Affiliate Member\*

\_\_\_\_\_ Out-of-State Member ... Legal residence (State) \_\_\_\_\_

\_\_\_\_\_ Retired Member ..... Date retired \_\_\_\_\_

TYPE OF ACTION (Please check one)

\_\_\_\_\_ New membership

\_\_\_\_\_ Change in membership class

\* If applying for affiliate membership, complete sections I, II, and VI only.

III. EDUCATION (Year of degree, curriculum, name and location of College or University)

BS \_\_\_\_\_

MS \_\_\_\_\_

PhD \_\_\_\_\_

Other \_\_\_\_\_

Please attach transcript(s) that list soils courses and number of credits earned.





ILLINOIS SOIL CLASSIFIERS ASSOCIATION  
 CERTIFIED PROFESSIONAL SOIL CLASSIFIERS  
 APRIL 25, 1996

AVAILABLE  
 FOR PRIVATE  
 CONSULTING

NAME	CONSULTING	ADDRESS	CITY	STATE	ZIP CODE	PHONE	FAX
KENNETH N. ANDERSON, JR.	Y	474990 LASHER RD.	ELBURN	IL	60119	708-232-3495	708-252-3411
GERALD V. BERNING	N	2811 BROWN ST.	ALTON	IL	62002	618-465-9336	618-656-9144
MARK W. BRAWSTEDT	N	685 LARRY POWERS RD.	BOURBONNAIS	IL	60914	815-937-3282	815-937-3268
PAUL E. BROWN	Y	215 W. WASHINGTON ST.	PONTIAC	IL	61764	815-842-2042	815-842-2159
LESTER J. BUSHUE	Y	1911 SCOTTSDALE DR.	CHAMPAIGN	IL	61821	217-359-7447	-
ROBERT G. DARMODY	Y	1102 S. GOODWIN AVE.	URBANA	IL	61801	217-333-9489	217-333-9817
JOHN C. DOLL	N	1702 HARRINGTON DR.	CHAMPAIGN	IL	61821	217-398-3040	-
TONIE J. ENDRES	N	RR 1, BOX 402	LAWRENCEVILLE	IL	62439-9795	618-943-3181	618-943-5613
DONALD J. FEHRENBACHER	N	USDA-NRCS, 1201 S. GOUGAR RD.	NEW LENOX	IL	60451	815-462-3106	815-462-3176
CHARLES J. FRAZEE	Y	RR 1, BOX 14B	DIVERNON	IL	62530	217-628-3518	-
DOUGLAS B. GAINES	Y	8611 WIESEMAN RD.	WORDEN	IL	62097	618-459-8619	618-459-8619
DANA R. GRANTHAM	Y	RR 1, BOX 9	BUTLER	IL	62015	217-532-5285	-
SCOTT D. HARDING	Y	15 EXECUTIVE DR.	FAIRVIEW HEIGHTS	IL	62208	618-624-6969	618-624-7099
JAMES K. HORNICKE	N	104 CORNELL DR.	NORMAL	IL	61761	309-862-2500	-
BRUCE J. HOUGHTBY	Y	4314A CRYSTAL LAKE RD.	MCHENRY	IL	60050	815-344-4020	815-344-0028
SAMUEL J. INDRAMANTE	N	USDA-NRCS, RM 245, 150 E PLEASANT HILL	CARBONDALE	IL	62901	618-453-5576	618-453-5578
PATRICK D. KELSEY	Y	711 WILDER ST.	AURORA	IL	60506	708-896-2909	708-719-2433
LINUS M. KIEFER	Y	RR 3, BOX 177A	WATSEKA	IL	60970	815-432-5741	-
MARY A. KLUZ	Y	1797 IRON SPRINGS RD., P.O. BOX 385	FRANKLIN GROVE	IL	61031-0385	815-456-3333	-
WILLIAM R. KREZMOR	Y	904 POWERS RD.	WOODSTOCK	IL	60098-2702	815-338-2362	815-338-8411
EMIL E. KUBALEK	Y	3408 56TH STREET PLACE	MOLINE	IL	61265-6648	309-797-3208	309-762-6248
RANDALL A. LEEPER	N	103 BETHESDA DR.	BELLEVILLE	IL	62223	618-939-7545	-
GARY WARD LENZ	Y	5746 LRC RD.	WATERLOO	IL	62298-6554	618-939-4986	-
MICHAEL E. LILLY	N	214 DUBLIN COURT	BRANDON	MS	39042	601-965-5208	601-965-5178
WM. MATT McCAULEY	N	RR 1, BOX 280	PITTSBURG	IL	62974	618-438-5872	618-435-3102
MARK S. McCLAIN	Y	1300 DRAWBRIDGE LANE	LAFAYETTE	IN	47905-7814	317-449-1665	317-449-4313
ROBERT L. McLEESE	N	1076 BUCKS POND RD.	MONTICELLO	IL	61856	217-398-5286	217-398-5310
LAURA L. MERKEL	N	721 6TH STREET, P.O. BOX 796	HUGO	CO	80821	719-743-2642	-
CLIFFORD C. MILES	Y	816 S. BROWN AVE.	TERRE HAUTE	IN	47803	812-235-2211	812-235-2211
ROBERT P. OJA	Y	P.O. BOX 168	WOODSTOCK	IL	60098	815-338-0099	815-338-7731
JOHN R. PEARSE	N	RR 1, BOX 83	WEST UNION	IL	62477	618-544-3914	618-544-8961
BRUCE R. PUTMAN	Y	1200 PORTAGE LANE	WOODSTOCK	IL	60098	815-338-6218	815-338-6218
DAVID B. RAHE	N	828 SOUTH OAK ST.	HILLSBORO	IL	62049	217-532-6887	-
J. WILEY SCOTT	Y	411 DORCHESTER DR.	MAHOMET	IL	61853	217-586-4233	-

ILLINOIS SOIL CLASSIFIERS ASSOCIATION  
 CERTIFIED PROFESSIONAL SOIL CLASSIFIERS  
 APRIL 25, 1996

AVAILABLE  
 FOR PRIVATE  
 CONSULTING

NAME	CONSULTING	ADDRESS	CITY	STATE	ZIP CODE	PHONE	FAX
MARTHA E. SHEPPARD	N	RR 2	PEARL	IL	62361	217-829-4409	618-576-2528
RANDY E. STALEY	Y	RR 2, BOX 298, 8034 S. ST. RD. 157	CLAY CITY	IN	47841	812-939-2752	-
STEVEN E. SUHL	N	101 DEER CREEK RD.	ROCHESTER	IL	62563	217-498-8511	-
JOHN P. TANDARICH	Y	843 COLUMBIAN AVE.	OAK PARK	IL	60302	312-922-0777	312-922-1823
EARL E. VOSS	Y	4009 FARHILLS DR.	CHAMPAIGN	IL	61821	217-352-3089	-
DONALD D. WALKER	Y	R #2, BOX 178	CARTHAGE	IL	62321	217-746-8601	217-746-8601
MICHAEL B. WALKER	N	USDA-NRCS, 921 N. LAKE ST.	AURORA	IL	60506	708-897-5753	708-897-5765
SCOTT H. WEGMAN	Y	751 ROOSEVELT RD., SUITE 110	GLEN ELLYN	IL	60137	708-790-4010	708-790-4083
BENNY J. WEISS	Y	755 WALNUT GROVE RD.	HARRISBURG	IL	62946	618-252-4292	-
GLORIA J. WESTPHAL	N	31849 117TH ST.	TWIN LAKES	WI	53181	414-862-2232	-
ROGER D. WINDHORN	N	USDA-NRCS, 1902 FOX DRIVE	CHAMPAIGN	IL	61820	217-398-5280	217-398-5310
STEVEN E. ZWICKER	N	772 MAYFAIR DR., RR #6	PRINCETON	IL	61356	815-875-2279	815-872-1365



# ILLINOIS SOIL CLASSIFIERS ASSOCIATION

## 1996 SUMMER NEWSLETTER

-----  
President - Pat Kelsey (630) 719-2417  
President Elect - Gerald Berning (618) 465-9336  
Past President - Doug Gaines (618) 656-1452  
Vice President - Dana Grantham (217) 532-5285  
Secretary - Ward Lenz (618) 532-2887  
Treasurer - Chuck Frazee (217) 628-3518  
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Certification Board Chair - Mark Bramstedt  
(217) 432-2378  
Certification Board Secretary - Tonie Endres  
(618) 943-4583  
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Editor - Pat Kelsey (630) 719-2417  
The Morton Arboretum  
4100 Illinois Rt. 53  
Lisle, IL 60532-1293  
FAX 630-719-2433  
E-mail: pkelsey@mortonarb.org  
-----

### TRAVEL SCHOLARSHIPS

The Illinois Soil Classifiers Association offered scholarships to students in Illinois colleges and universities who are interested in soil science. This scholarship would help support travel to the 1996 Soil Science Society of America meetings. Recipients wrote essays of 500 words or less describing their interest in soil science and what benefits they would gain from attending the meetings.

This year's \$100 scholarship winners were: David Tungate and Scott Wiesbrook from the University of Illinois, and Mark Stelford from Northern Illinois University.

### LETTER TO THE PRESIDENT

September 16, 1996

RE: Key for Determining Sewage Loading Rates

I want to express a concern that I, and others who perform soil investigations to determine suitability for septic leach fields, have with the ratings for some soil

groups. In Exhibit B, Illustration M, Section 905, Appendix A of the Illinois Department of Public Health Private Sewage Disposal Licensing Act and Code, 1996, we believe that structured glacial till is rated too severely. The Bt horizon of Miami or the 2Bt horizon of Russell, for example, typically are clay loam texture, moderate or strong structure, and friable or firm consistence. These materials classify as 6H or 6I in Exhibit B, with loading rates of 0.45 and 0.40 GPD/ft<sup>2</sup>. Footnote 6 tells us these groups are estimated to have moderately slow permeability, but Miami and Russell soils are rated as moderate permeability.

Several soil series that formed in thin to moderately thick Peoria loess and Wisconsinan till across central Illinois are rated similarly. These ratings appear to be unnecessarily harsh, and preclude the installation of septic leach fields. Those of us who perform on-site soil investigations as consultants feel that Bt horizons that formed in till are probably no more restrictive than Bt horizons with the same structure and consistence that formed in loess.

I request that this issue be raised at the business meeting. I don't know the procedure for making changes to Exhibit B in the Code, but if others agree that this is a problem, steps should be taken to correct this interpretive classification. Maybe members of the committee that created Exhibit B can respond to our concerns.

Wiley Scott, CPSS/SC

**Editors Note:** An ad-hoc committee is being established to address technical soils issues in Illinois. ISCA must lead in all non-NCSS technical issues. The committee composition will be announced after the January Council Meeting.

Pat Kelsey, President ISCA

### WELCOME TO NEW MEMBERS

**Clement Coulombe** is a soil classifier employed by Resource Management Group, Inc. in Grand Haven,

Michigan. He conducts wetland investigations, on-site soil investigations for waste treatment and land development projects, groundwater monitoring, and performs soil survey work using GPS. He earned his B.S. and M.S. degrees in Bio-Agronomy and Soils, respectively, at Laval University, Ste-Foy, Quebec. He recently completed his Ph.D. at Texas A&M University studying Vertisols. Dr. Coulombe's experience includes translating scientific reports, soil survey, and teaching. He joins ISCA as a Full Member.

**Vonda Miller** joins ISCA as an Associate Member. Ms. Miller earned her B.S. degree at Northern Illinois University in Geography-Natural Environmental Systems. She conducted undergraduate research interpreting soil surveys in selected parts of Whiteside County for homesite development. She resides in Sterling, Illinois.

**Andrea Paulek** is our newest Student Member. She currently is working toward a B.S. degree in Geography/Environmental Planning at Southern Illinois University in Carbondale. Ms. Paulek served as a summer intern in the Springfield MLRA soil survey office. Her duties there included transecting landscapes and describing pedons in Adams County. She hails from Stonington, Illinois.

## **ILLINOIS DEPARTMENT OF PUBLIC HEALTH SOIL WORKSHOP**

**Editors Note:** The following letter was provided to IDPH Workshop Participants. I encourage all ISCA members to make follow up calls to their local health departments to encourage affiliate memberships.

Dear Workshop Participant:

I would like to take this opportunity to introduce you to the Illinois Soil Classifiers Association (ISCA). We are a not-for-profit, educational organization created to maintain high standards of technical competence and ethical conduct in the profession of soil classifying. Our members work in many areas of soil science that involve classification including National Cooperative Soil Survey, on-site investigation for waste water treatment, wetland delineation, land-use planning, and land management activities such as natural areas conservation and forestry.

The ISCA is a cooperator and active participant in the Illinois Cooperative Soil Survey. ISCA promotes the wise utilization and conservation of the soil resources of Illinois by encouraging the dissemination and use of

soils information. Through outreach programs, ISCA members provide assistance and training to many professionals in allied fields. ISCA provides continuing education opportunities for those interested in soils information and its utilization through technical workshops, conferences, field tours, and the association's newsletter.

The Illinois Soil Classifiers Association maintains a certification program through an independent board which sets standards for the practice of professional soil classifying in Illinois. These standards include undergraduate educational requirements including a Bachelors Degree with a minimum of 15 hours of soil science, a period of practical work experience in soil classification, and performance on a soil classification exam. ISCA maintains standards that equal or exceed those of ARCPACS of which we are an affiliate member. The educational standards of ISCA are based upon the federal requirements for the National Cooperative Soil Survey program.

I would like to take this opportunity to invite you to attend our workshops and increase your awareness of the many soil information products that are available. This coming winter, we will be sponsoring a workshop on the utilization of soil survey data in land-use planning and land development.

I encourage you to become an affiliate member of ISCA so that you can receive timely information on the training available.

Patrick Kelsey, CPSSc/SC  
President

## **THE NORTH CAROLINA SOIL SCIENTIST LICENSING PROGRAM**

H.J. Kleiss

The North Carolina Soil Scientist Licensing Act (N.C. General Statutes 89F) defines the practice of soil science and establishes standards and requirements for licensing of soil scientists. The practice of soil science as defined encompasses many activities related to environmental quality. These include investigating and evaluating the interactions among water, soil, nutrients, plants and other living organisms. The preparation of assessments on subsurface ground absorption waste disposal systems, land application of municipal and industrial wastes, soil remediation of residuals, soil erodibility and sedimentation, and identification of hydric soils are part of the definition of the "practice of soil science." Performance of such activities is clearly

related to the public welfare. The licensing statute makes it unlawful to practice soil science as defined in the Act or to use the title of soil scientist unless the person is licensed.

A seven-member board representing a cross-section of interests was appointed by the Governor and the General Assembly to administer the program.

<u>Board Member</u>	<u>Affiliation</u>	<u>Appointed by:</u>
Debbie Anderson, Soil Scientist	Natural Resources Conservation Service	Governor
H. Joseph Kleiss, Professor	North Carolina State University	Governor
Paul Lilly, Soil Specialist	Private Consultant	Senate Pro Tem
Graham Cawthorne, Registered Land Surveyor	Cawthorne & Associates	Speaker of the House
Everett Lynn, Soil Scientist	Wake County Environmental Health Department	Governor
Sandra Long, Consultant	Harrelson & Long Governmental Affairs Consultants	Senate Pro Tem
Hubert J. Byrd, Soil Scientist	Soil & Environmental Consultants Inc.	Speaker of the House
Ray Campbell, Ex-Officio Member	Soil Science Society of North Carolina	President, Soil Science Society of North Carolina

Rule-making procedures have resulted in the adoption of temporary rules and the Board is now functioning and accepting applications. The basic requirements for licensing include a bachelor of science degree with a minimum of 30 semester hours in agricultural, biological, physical, or earth sciences and at least 15 semester hours in soil science.

An examination must be passed and a minimum of three cumulative years of professional work experience as a soil scientist must be completed. Advanced degrees can reduce the experience requirement. A provision in the licensing bill allows persons who presently meet all the requirements to be licensed without examination. This "grandfather" period ends 6 Nov. 1996. Examination will be required of all applicants after this date. To maintain a license, continuing education is required as a part of the renewal process.

An application package containing the statute and rules can be obtained by sending five dollars (\$5) to the North Carolina Board of Licensing of Soil Scientists, P.O. Box 5316, Raleigh, NC 27650-5316.

Soil Survey Horizons Vol. 37, No. 3, Fall 1996, pg. 102-103.

## LETTER TO THE STATE OF WISCONSIN FROM WSPSS

### Concerning Threat to the practice of Soil Science

Dear Mr. Lemcke:

We are writing to recommend revisions to Wisconsin Administrative Codes NR110, NR213, NR214, NR500, NR600, and NR700. We believe these revisions are needed to resolve potential conflicts between the practice of soil science and geology in Wisconsin.

Professional consulting soil scientists have been practicing under the soil related sections of the Administrative Code for many years in Wisconsin. In passing Wisconsin Act 463, we believe it was not the intent of the legislature to exclude professional soil scientists from continuing to work under the soil related sections of the Code. For work involving the soil, both geologists and soil scientists have much professional expertise to offer. Soil scientists have especially valuable and unique expertise in areas involving the chemical and biological properties and processes in soils and in soil genesis and classification.

We strongly support professional licensing and certification and endorse DNR's efforts to revise the Administrative Code to strengthen the requirements to practice as a professional. However, we believe professional recognition can be based on either a license granted by the state or certification by a nationally recognized organization.

To protect the public welfare, safety, and health, and the soil science profession in Wisconsin, we are recommending that a "professional soil scientist" must be certified by ARCPACS. ARCPACS is a long-established professional certification program, requiring academic qualifications, years of professional experience, continuing education, ethical conduct, testing, and references similar in degree to the requirements for a "registered professional geologist".

Therefore, we urge incorporation of the following definitions in appropriate sections of the Code:

**"Professional soil scientist"** means an individual who is certified as a professional soil scientist in good standing by ARCPACS\* or another professional organization with certifying or registration standards equivalent to ARCPACS.

\*ARCPACS is a Federation of Certifying Boards in Agriculture, Biology, Earth and Environmental Sciences which certifies individuals in the areas of agronomy, crop science, soil science, soil classification, horticulture, weed science, and plant pathology. ARCPACS is a membership service of the American Society of Agronomy (ASA).

“Soil Science” means the science that involves the study of the physical, mineralogical, biological, hydrological, and chemical properties and processes of the soil.

“Practice of professional soil science” means the performance of or the offer to perform any soil science service or work in which the public welfare or the safeguarding of life, health, environment, or property is concerned or involved. “Practice of professional soil science” includes the collection of soil data, consultation, investigation, classification, evaluation, interpretation, planning, or inspection of or relating to a service or work that applies soil science.

Specifically, we believe these definitions should be added to NR110.03, NR213.04, NR214.03, NR500.03, NR600.03, and NR700.03.

The following definition of soil is presented to clarify the practice of professional soil science. We encourage DNR to compare this definition to the definitions in the current Code and make appropriate revisions.

“Soil” is the unconsolidated mineral and organic material in the upper part of the earth’s crust. Soil includes the near-surface zone of biologic activity and that portion of the underlying parent material above consolidated bedrock which has been altered by natural physical, biological, or chemical processes.

The following is a partial list of work currently performed by professional soil scientists in Wisconsin, which may be covered under the Code. These examples are included for clarification only.

- > Identification, description, delineation, and interpretation of hydric soils.
- > Sampling, classifying, and delineating soil types to produce soil maps.
- > Evaluating soil conditions to support remediation strategies for the maintenance of soil quality and minimizing pollution, including bioremediation, in-situ contaminant stabilization, and containment processes, among others.
- > Determining the suitability of specific sites for

home onsite waste disposal.

- > Evaluating sites for land application of waste.
- > Advisement of other professionals for containment of waste disposal such as landfill siting, capping, and revegetating.
- > Identifying, sampling, evaluating, and recommending reclamation treatment for contaminated soils.
- > Evaluating surface mined or other disturbed land and advising clients on reclamation practices.
- > Estimating seasonal soil moisture patterns by evaluating soil morphological characteristics, and by monitoring soil moisture using suction lysimeters, moisture probes, groundwater monitoring wells, and similar monitoring devices.
- > Evaluating sites and recommending practices to reduce and control soil erosion in both rural and urban areas.
- > Evaluating soils for suitability for home site development.
- > Interpretation of soil maps for land use planning and zoning purposes.
- > Evaluating agricultural capability and prime farmland classification.

In addition to adding the above definitions, we urge the following specific revisions to the Code:

**NR110.09(8)(b)** (*Soil investigation for land disposal systems*) Include *soil investigation and professional soil scientist*, e.g.:

Hydrogeological and soil investigation. 1. A hydrogeological and soil investigation shall be included as part of the facilities plan. The analysis of the hydrogeological and soils information shall be done by a hydrogeologist registered professional geologist, professional soil scientist, or other qualified person. The investigation shall include both regional and site-specific hydrogeological and soils information.

Make appropriate edits to the Note also.

*Rationale:* This is not a change to the intent of the Code. NR110.09(8) makes it clear that the investigation and report shall include both soil and hydrogeological information, and that a soil scientist is a “qualified person”.

**NR110.24(3)(d)** (*Soil borings for lagoons*). Include professional soil scientists.

*Rationale:* Many professional soil scientists have

academic training and professional experience which makes them well qualified for this work. Soil scientists are performing this work under the present code.

**NR110.25(5)(a)** (*Groundwater monitoring*) Include professional soil scientist. Make appropriate edits to the Note also.

*Rationale:* Many professional soil scientists have academic training and professional experience which makes them well qualified for this work. A soil scientist is a "qualified person" under the present Code.

**NR213.02(2)(c)** (*Small research lagoon exclusion*) Edit soil scientist to professional soil scientist.

**NR213.09(2)(d)** (*Soil borings for lagoon liners*) Include professional soil scientists.  
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*Rationale:* Many professional soil scientists have academic training and professional experience which makes them well qualified for this work.

**NR213.11(1)(h)** (*Natural soil liner construction*) Edit qualified soil technician to professional soil scientist.

**NR213.11(2)(f)** (*Soil-bentonite liner construction*) Edit soil technician to professional soil scientists.

**NR214.20(2)** (*Soil borings for land application*) Edit qualified soil scientist to professional soil scientist.

**NR214.21(2)(a)** (*Groundwater monitoring for land application*) Edit soil scientists to professional soil scientist.

**NR500.05(4)(b)** (*Waste management site reports*) Edit: ... reports where interpretation of geology or hydrogeology, is necessary shall be under the seal of a registered professional geologist. If interpretation of soils is necessary, a report shall be prepared under the signature of a professional soil scientist or under the seal of a registered professional geologist.

*Rationale:* Many reports required by NR500 contain interpretation of soils information. Many professional soil scientists have academic training and professional experience which makes them well qualified to collect this information and prepare the reports. Soil scientists are collecting and interpreting soils information under the

present code.

**NR507.04(2)** (*Landfill monitoring*) Edit to allow professional soil scientists to supervise in-field hydraulic conductivity tests of soils and to supervise the visual description and classification of soil samples.

*Rationale:* Many professional soil scientists have academic training and professional experience which makes them well qualified for this work.

**NR510.05(3)** (*Landfill pre-feasibility reports*) Edit to allow professional soil scientists to supervise the visual description and classification of soil samples.

**NR512.09(3)** (*Landfill feasibility reports*) Edit to allow professional soil scientists to supervise in-field hydraulic conductivity tests and to supervise the visual description and classification of soil samples.

**NR635.18(11)** (*Groundwater/leachate monitoring*) Edit to allow professional soil scientists to supervise in-field hydraulic conductivity tests and to supervise the visual description and classification of soil samples.

**NR635.18(22)(e)3** (*Groundwater/leachate monitoring*) Edit to allow professional soil scientists to supervise in-field hydraulic conductivity tests and to supervise the visual description and classification of soil samples.

**NR680.05(1)(c)1** (*Hazardous waste plans*) Edit:.... reports where interpretation of geology or hydrogeology, is necessary shall be signed by a hydrogeologist under the seal of a registered professional geologist. If interpretation of soils is necessary, a report shall be prepared under the signature of a professional soil scientist or under the seal of a registered professional geologist.

**NR680.09(1)** (*Landfill construction inspection*) Edit to allow professional soil scientists employed by the department to inspect the installation and development of in-field hydraulic conductivity tests.

**NR680.45(8) Table XII Note(1) and Table XIII Note (1)** Edit to be consistent with NR680.05

**NR712.05(1) and (2) and (3)** (*Environmental response actions*) Add professional soil scientist.

**NR712.07(1) and (5)** Add professional soil scientist.

**NR712.09 and NR712.11** Add professional soil

scientist where appropriate.

In addition, we urge similar revisions be made in other appropriate sections of the Administrative Code, to be consistent with the spirit of the specific revisions listed above. We understand that some of these tasks may be performed by technicians or other qualified persons. Where appropriate, the phrase "*professional soil scientist*" may be expanded to read "*professional soil scientist or other qualified person under the direction of a professional soil scientist*".

We understand that changing the Code to include professional soil scientists affects other professions, such as professional engineers, and professional geologists. We look forward to working with these professions and are currently cooperating with the American Institute of Professional Geologists (AIPG).

Please feel free to call if you have any questions or concerns regarding these comments.

**Duane Simonson, President** 608-647-6197  
Wisconsin Soc. of Professional Soil Scientists

**Thomas Hall, Asst. Vice President** 608-273-8080  
SSSA

**Mark McClain, President** 800-535-7148  
National Soc. of Consulting Soil Scientists

**Fred Madison, Professor** 608-263-4004  
Dept. of Soil Science, UW Madison

## SOI - DRAFT MLRA MAP FOR ILLINOIS

At the end of the newsletter is a draft copy of the revised (4/92 and 8/96) MLRA map for Illinois which you requested at the July Meeting. We began the process of refining our MLRA boundaries in 1991.

The attached 8/96 version reflects the latest input from our MLRA project officers.

Robert L McLeese  
State Soil Scientist

## NEW PUBLICATIONS

**Field Indicators of Hydric Soils in the United States. Version 3.2 July, 1996.** G.W. Hurt, P.M. Whited, and R.F. Pringle.

*Field Indicators of Hydric Soils in the United States* has been developed by soil scientists of the Natural Resources Conservation Service (NRCS) in cooperation with the U.S. Fish and Wildlife Service (FWS), the U.S. Army Corps of Engineers (COE), the Environmental Protection Agency (EPA), various regional, state, and local agencies, universities and the private sector to be used as a guide to help identify and delineate hydric soils in the field.

Copies of this publication can be obtained from:

Russell F. Pringle  
NRCS Wetland Science Institute  
Louisiana State University  
104 Madison B. Sturgis Hall  
Baton Rouge, LA 70303-2110

**Keys to Soil Taxonomy, Seventh Edition, 1996.**  
Soil Survey Staff.

This Publication, *Keys to Soil Taxonomy*, serves two purposes. It provides the taxonomic keys necessary for the classification of soils according to Soil Taxonomy in a form that can be used easily in the field, and it also acquaints users of Soil Taxonomy with recent changes in the classification system. This volume includes all revisions of the keys that have so far been approved, replacing the original keys in *Soil Taxonomy: A Basic System of Soil Classification for Making and Interpreting Soil Surveys* (1975), the work on which this abridged version, first published in 1983, is based.

Copies of this publication can be obtained from:

U.S. Government Printing Office  
Superintendent of Documents  
Mail Stop: SSOP  
Washington D.C. 20402  
ISBN 0-16-048848-6

## From the Editorial Staff:

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**Happy Holidays**

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ILLINOIS

