

# Vote Record

## Senate Committee on Economic Development, Housing and Government Operations

Date: 2-29-00  
Moved by: Crab Seconded by: Wirch  
AB: \_\_\_\_\_ Clearinghouse Rule: \_\_\_\_\_  
AB: \_\_\_\_\_ SB: 347 Appointment: \_\_\_\_\_  
AJR: \_\_\_\_\_ SJR: \_\_\_\_\_ Other: \_\_\_\_\_  
A: \_\_\_\_\_ SR: \_\_\_\_\_

A/S Amdt: \_\_\_\_\_  
A/S Amdt: \_\_\_\_\_ to A/S Amdt: \_\_\_\_\_  
A/S Sub Amdt: \_\_\_\_\_  
A/S Amdt: \_\_\_\_\_ to A/S Sub Amdt: \_\_\_\_\_  
A/S Amdt: \_\_\_\_\_ to A/S Amdt: \_\_\_\_\_ to A/S Sub Amdt: \_\_\_\_\_

Be recommended for:

- Passage
- Introduction
- Adoption
- Rejection

- Indefinite Postponement
- Tabling
- Concurrence
- Nonconcurrence
- Confirmation

### Committee Member

Sen. Robert Wirch, Chair  
Sen. Gwendolynne Moore  
Sen. Richard Grobschmidt  
Sen. Gary Drzewiecki  
Sen. David Zien

<u>Aye</u>	<u>No</u>	<u>Absent</u>	<u>Not Voting</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Totals: \_\_\_\_\_

Motion Carried

Motion Failed

**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/00

BILL NO. SB 347

OR

SUBJECT Registration of  
Wetland Scientists

Patricia Ann Trochali  
(NAME)

2315 Hickory Street  
(Street Address or Route Number)

Cross Plains 53528  
(City and Zip Code)

Self  
(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:  
but not speaking:

Registering Against:  
but not speaking:

Speaking for information  
only; Neither for nor against:

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State Capitol - B35 South  
P.O. Box 7882  
Madison, WI 53707-7882

**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2-29-2000

BILL NO. SB 347

OR

SUBJECT \_\_\_\_\_

Joan E. Underwood, Ph.D., Chair  
(NAME)

1400 E. Washington Ave  
(Street Address or Route Number)

Madison 53703  
(City and Zip Code) Examining Board

of Professional Geologists, Hydrologists,  
(Representing) AND Soil Scientists

Speaking in Favor:

Speaking Against:

Registering in Favor:  
but not speaking:

Registering Against:  
but not speaking:

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only; Neither for nor against:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/2000

BILL NO. SB 347

OR

SUBJECT \_\_\_\_\_

Rep. Dan Strakas  
(NAME)

119 W  
(Street Address or Route Number)

State Capitol  
(City and Zip Code)

\_\_\_\_\_  
(Representing)

Speaking in Favor:

Speaking Against:

w/ SE WPC Recommendations  
Registering in Favor:  
but not speaking:

Registering Against:  
but not speaking:

Speaking for information  
only; Neither for nor against:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/2000

BILL NO. 347

OR

SUBJECT licensing of wetland scientists

LARRY KASCHT

(NAME)

209 JASPER LANE  
(Street Address or Route Number)

WAUKESHA, WI 53188  
(City and Zip Code)

Dept. of Parks & Land Use - Waukesha County

Retzer Nature Ctr.

(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:

but not speaking:

Registering Against:

but not speaking:

Speaking for information only; Neither for nor against:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/00

BILL NO. SB 347

OR

SUBJECT Wetlands Scientists

MARK OSTEN

(NAME)

636 Rowalia Dr.  
(Street Address or Route Number)

Verona 53593  
(City and Zip Code)

Self

(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:

but not speaking:

Registering Against:

but not speaking:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/00

BILL NO. SB 347

OR

SUBJECT \_\_\_\_\_

Donald M. Reed

(NAME)

12521 W. Prospect Dr.  
(Street Address or Route Number)

New Berlin, Wisc.  
(City and Zip Code)

(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:

but not speaking:

Registering Against:

but not speaking:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 29 FEB 2000

BILL NO. 347

OR

SUBJECT registration of

wetland scientists

Tim GERBER

(NAME)

1445 MERRISON ROAD

(Street Address or Route Number)

OMAHA, WI 54601

(City and Zip Code)

(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:   
but not speaking:

Registering Against:   
but not speaking:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/00

BILL NO. SB 347

OR

SUBJECT

Elizabeth A. Day

(NAME)

6429 Maywood Ave.

(Street Address or Route Number)

Middleton, WI

(City and Zip Code)

self

(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:   
but not speaking:

Registering Against:   
but not speaking:

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Madison, WI 53707-7882

**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/00

BILL NO. 347

OR

SUBJECT WETLANDS SCIENCE

REGISTRY

SCOTT STORLIN

(NAME)

2520 PENNER RD.

(Street Address or Route Number)

COTTAGE GROVE 53527

(City and Zip Code)

(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:   
but not speaking:

Registering Against:   
but not speaking:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: FEBRUARY 29, 2000

BILL NO. SB 347

OR  
SUBJECT: \_\_\_\_\_

HERBERT S GARN  
(NAME)

7005 Cardinal Dr  
(Street Address or Route Number)

Middleton,  
(City and Zip Code)

Self  
(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:  
but not speaking:

Registering Against:  
but not speaking:

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only; Neither for nor against:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/00

BILL NO. SB 347

OR  
SUBJECT: \_\_\_\_\_

TRACY BENZEL  
(NAME)

Box 542  
(Street Address or Route Number)

MERCER WI 53547  
(City and Zip Code)

GHS  
(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:  
but not speaking:

Registering Against:  
but not speaking:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/2000

BILL NO. SB 347

OR  
SUBJECT: Hydrologists & S.S.  
Licensing

Bob Biebel  
(NAME)

1028 Windsor Drive  
(Street Address or Route Number)

Waukesha WI 53188  
(City and Zip Code)

SEWRPC  
(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:  
but not speaking:

Registering Against:  
but not speaking:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: February 29, 2000

BILL NO. SB 347

OR  
SUBJECT \_\_\_\_\_

ALFRED HALL, JR., Bureau Director  
(NAME)

1400 E. Washington Ave  
(Street Address or Route Number)

MADISON 53703  
(City and Zip Code)

Dept. of Regulation & Licensing  
(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:  
but not speaking:

Registering Against:  
but not speaking:

Speaking for information  
only; Neither for nor against:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2/29/00

BILL NO. 347

OR  
SUBJECT \_\_\_\_\_

Alice Thompson  
(NAME)

1320 Manitowoc Ave  
(Street Address or Route Number)

S. Milwaukee 53172  
(City and Zip Code)

self  
(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:  
but not speaking:

Registering Against:  
but not speaking:

Speaking for information  
only; Neither for nor against:

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**SENATE HEARING SLIP**

(Please Print Plainly)

DATE: 2-29-2000

BILL NO. SB-347

OR  
SUBJECT \_\_\_\_\_

Seaton  
Kirk Eubrecht  
(NAME)

\_\_\_\_\_  
(Street Address or Route Number)

\_\_\_\_\_  
(City and Zip Code)

219 Seate Dist.  
(Representing)

Speaking in Favor:

Speaking Against:

Registering in Favor:  
but not speaking:

Registering Against:  
but not speaking:

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only; Neither for nor against:

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State Capitol - B35 South  
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State of Wisconsin \ DEPARTMENT OF REGULATION & LICENSING

Tommy G. Thompson  
Governor

Marlene A. Cummings  
Secretary

1400 E. WASHINGTON AVENUE  
P.O. BOX 8935  
MADISON, WISCONSIN 53708-8935  
E-Mail: dorl@mail.state.wi.us  
(608) 266-2112  
FAX#: (608) 267-0644  
TTY#: (608) 267-2416  
TRS#: 1-800-947-3529

February 28, 2000

THE HONORABLE SENATOR ROBERT WIRCH, CHAIR  
COMMITTEE ON ECONOMIC DEVELOPMENT, HOUSING  
AND GOVERNMENT OPERATIONS  
ROOM 310 SOUTH STATE CAPITOL  
MADISON WI 53702

RE: Senate Bill 347 Relating To – Registration of Wetland Scientists

Dear Senator Wirch:

The Examining Board of Professional Geologists, Hydrologists and Soil Scientists (Examining Board), met on February 16, 2000, to discuss SB 347. The Board appreciates this opportunity to offer comment and ask some questions of clarification.

The Board wanted to know what education and experience requirements would be required for a person registered as a wetland scientist to perform the activities of: wetland monitoring, wetland assessment and design of projects to restore wetlands. Your attention to this request is appreciated.

Please contact Attorney William Black, Board Legal Counsel, at 608-266-1790, if you have any questions.

Respectfully,

Joan E. Underwood PG, Chair  
Examining Board of Professional Geologists, Hydrologists and Soil Scientists

JEH:ajh

Cc: Marlene A. Cummings, Secretary  
William Black, Board Legal Counsel  
Alfred J. Hall, Jr., Bureau Director

Regulatory Boards

Accounting; Architects, Landscape Architects, Professional Engineers, Designers and Land Surveyors; Professional Geologists, Hydrologists and Soil Scientists; Auctioneer; Barbering and Cosmetology; Chiropractic; Controlled Substances; Dentistry; Dietitians; Funeral Directors; Hearing and Speech; Medical; Nursing; Nursing Home Administrator; Optometry; Pharmacy; Physical Therapists; Podiatry; Psychology; Real Estate; Real Estate Appraisers; Social Workers, Marriage and Family Therapists and Professional Counselors; and Veterinary.



Tommy G. Thompson  
Governor

Marlene A. Cummings  
Secretary

1400 E. WASHINGTON AVENUE  
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(608) 266-2112  
FAX#: (608) 267-0644

**Testimony on Senate Bill 347  
Before The  
Committee on Economic Development,  
Housing and Government Operations  
Senator Robert Wirsch, Chair  
Tuesday, February 29, 2000, 10:00 A.M.  
411 South, State Capitol**

Chairperson Wirsch and members of the Committee on Economic Development, Housing and Government Operations thank you for the opportunity to present our views which neither supports nor opposes the registration of Wetland Scientists, but rather compliments the *registration format* as designed to regulate this profession.

Pure and simple registration, which provides for assuring competence, dispensing information and redressing complaints appears to be all that is needed and this proposal provides for that. We are not sure, however, if regulation in any form is needed to protect the interests of the consumers. I am certain the committee will make the best decision in the interest of the public.

Thank you.

Submitted By: Secretary Marlene A. Cummings

Presented By: Alfred Hall, Jr., Bureau Director

mac/mls/wetland scientists

## Comments on SB 347

H. S. Garn February 25, 2000

Re: SB347, creating an exception from the GHSS licensing requirement for a person who is registered as a wetland scientist by a state or national private or professional organization that certifies, registers or accredits wetland scientists.

**Wetland Science Scope of Practice.** Activities related to wetland science may include:

- Wetland delineation
- Wetland permitting
- Wetland management
- Wetland permitting activities
- Assessing impacts to wetlands
- Evaluating wetland functions
- Designing restoration and enhancement projects
- Mitigating adverse impacts/loss of wetlands (replacing the function and structure of a destroyed wetland by creating, restoring, or enhancing a wetland in another location)
- Research activities

Hydrologic functions of wetlands include (Carter, et. al.,1978; Wis. Dept. of Administration, 1995; Hunt, 1996):

- Flood water storage and flow modification
- Ground water recharge or discharge
- Shoreline protection, erosion control
- Water quality improvement

"Water is the driving force in the creation of wetland communities." (Wis. Dept. of Administration, 1995, p. 18) "The frequency and duration of inundation or soil saturation is a major factor that separates wetlands from non-wetlands." "Of the three components used for wetland identification, hydrology is often the least exact and most difficult to observe in the field due to multi-year, annual, seasonal and daily fluctuations." (Wis. Dept. of Administration, 1995, p. 15).

## Tasks Requiring Hydrologic/Soils Competency

Task	Competencies needed
<u>Surface water monitoring</u> - streamflow discharge - water levels	General hydrology, hydraulics, environmental engineering
<u>Ground water monitoring</u> - installing and operating monitoring wells and piezometers - hydraulic conductivity of sediments - computing groundwater flow	Hydrogeology, ground-water flow systems, modeling subsurface flow
Water quality monitoring	Water chemistry, geochemistry, general hydrology, monitoring design
Monitoring soil moisture, pore-water chemistry, temperature	Soils, soil morphology, soil physics, etc (add as needed)
Describing soil profiles, evaluating soil suitability, etc	Soils, soil taxonomy, morphology, classification, mapping, (add as needed)
Designing restoration and enhancement projects	General hydrology, environmental engineering, hydrogeology, sedimentology, soils, soil morphology, soil physics
Evaluating wetland functions	Similar to above
Mitigating adverse impacts/loss of wetlands	Similar to above

*Note: the various types of monitoring may be used in delineations, functional assessments, impact analysis, restoration, mitigation, and research.*

The more difficult tasks, such as designing restoration projects, evaluating wetland functions, and wetland mitigation, often require the application of innovative and advanced techniques in hydrology (Hunt, 1996). Many of the tasks are multi-disciplinary, often requiring the participation of not only wetland scientists, but also hydrologists and hydrogeologists, soil scientists, and engineers. Reed (1996) recommended in the review of challenges to wetland delineations that work be conducted by a soil scientist with respect to hydric soils; and a hydrologist with respect to wetland hydrology.

### Certifying Organizations

The Professional Certification Program of the Society of Wetland Scientists is the only known national organization offering such. Minimum certification requirements include a BA or BS degree with course distribution in biological and physical sciences plus wetland-related courses, and 5 years of professional experience ([www.wetlandcert.org/requirements.html](http://www.wetlandcert.org/requirements.html)). However, a greater issue with the coursework requirements is that a total of 15 credits in physical sciences is required; there is no requirement that they include soils, geology, and hydrology. Therefore an individual certified as a Professional Wetland Scientist (PWS) may not necessarily have the education and competence in soils or hydrology. Also, it is not clear what scope of

activities is covered in the certification and there is no requirement that the PWS must act within his/her scope of certification. It is not clear whether a disciplinary process is in place that addresses situations when a PWS engages in conduct that shows he/she was acting outside his/her area of expertise.

### References

- Carter, Virginia, Bedinger, M. S., Novitzki, R. P. and Wilen, W. O. 1978. Water resources and wetlands. In: Proceedings of National Symposium on Wetlands, Wetland Functions and Values: The State of our Understanding. American Water Resources Assoc., p.344-376.
- Hunt, R. J. 1996. Do created wetlands replace the wetlands that are destroyed? U.S. Geological Survey Fact Sheet FS-246-96.
- Reed, Donald M. 1996. Methodologies for review of challenges to wetland field delineations conducted by the Southeastern Wisconsin Regional Planning Commission. Lakeline, 16(3):10-11, 48-51.
- Wisconsin Department of Administration. 1995. Basic guide to Wisconsin's wetlands and their boundaries. Wisconsin Coastal Management Program, PUBL-WZ-029-94, 87 p.