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# PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

Volume 58, Number 1



FEBRUARY 1997



# PUGET SOUND CHEMIST



## BULLETIN OF THE PUGET SOUND SECTION AMERICAN CHEMICAL SOCIETY

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G & H Printing  
2370 Eastlake Ave. E.  
Seattle, WA 98102  
206-329-9888 FAX: 206-324-3705

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Published eight times during the September-June portion of the year by the Puget Sound Section of the American Chemical Society, with a circulation of about 2000. Direct all copy to the Editor and advertising correspondence to the Business Manager. The Secretary of the Section handles other business. All copy shall be **typed** and **double-spaced**!!

## Puget Sound Section, ACS, Executive Committee Future Meetings in 1997

Meetings are open to all members and are held on the second Wednesday of each month except there will be no meetings in July and August.

**March 12, April 9, September 10, October 8, November 12, & December 10**

**Place: North Seattle Community College**

**Meeting: 6:30 PM in 2430C**

Room 2430C is on the second floor above the book store.

**On the Cover:** Wetlands area of Lake Chelan (Eastern Washington)



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## MARCH MEETING

- DATE:** Wednesday, March 5, 1997
- SCHEDULED EVENT:** Thornton Creek Forum: By Whose Design?
- PROGRAM:** Creating Wetlands in the Thornton Creek Watershed
- FEATURED SPEAKER:** Ann Mary Nefcy  
Senior Chemist  
ChemData, Inc.
- TOPIC:** "The Chemistry of Wetlands:  
Complex Organic Structures"
- FEATURED SPEAKER:** Dyanne Sheldon  
Principal  
Sheldon Associates
- TOPIC:** "By Whose Design?"

The March meeting will be held as part of the Thornton Creek Forum on the Thornton Creek Watershed project. Speakers will inform us about wetland environments and challenge us to think, discuss, and make democratic decisions about them. We urge you to attend and learn about a part of our ecosystem that is certainly something we all need to understand.

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## FUTURE MEETINGS 1997

- April 21st  
Dr. Michael Parsons: **Global Warming: The Myth**
- May 7th  
Spring Social Event: **Honoring the 50 Year Members**
- September 26th  
Dr. Rudolph Marcus: **Nature and Gods**
- October 13th  
Dr. Helen Free: Chemistry: **Contributions to the Quality of Life**
- November 5th  
Dr. Michael Doyle: **Seeing is Deceiving: It's Eating That's Believing**



# Thornton Creek Forum: By Whose Design?

## Creating Wetlands In the Thornton Creek Watershed

Wednesday, March 5, 1997

This year's Thornton Creek Forum will consist of several components. Attendees are welcome to participate in any or all of the events. All events will originate in the Student Activities room just north of the cafeteria. The kick-off activity will consist of a short tour of the wetlands on the north end of NSCC campus. This will be followed by a reception and community fair. One of the highlights of the fair will be a traveling display showcasing the many activities of the Thornton Creek Project. The Thornton Creek Project is a consortium of citizens, educators, and business leaders dedicated to the stewardship of the Thornton Creek Watershed.

The main program will begin about 7:00 P.M. and include two presentations on wetlands. The first presenter will be Ann Mary Nefcy (ACS Tour Speaker) who will describe some wetlands characteristics in terms of visible fauna and flora but seldom about the complex and unique chemistry of the soils that are essential to the proper functioning of this environment. The program will next feature Dyanne Sheldon (Sheldon and Associates) who will examine the considerations that have gone into an experimental technique for enhancing an urban wetlands area. This is a unique approach because most urban wetlands have been filled in and built upon rather than left in their natural state. A discussion of the issue involved by Peter Hayes (Thornton Creek Project) will cap off the forum.

### SCHEDULE of EVENTS

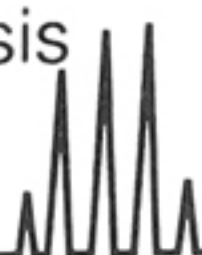
- 5:00 - 6:00 p.m. Tour new NSCC wetlands area. (Bring your boots.)
- 6:00 - 7:00 p.m. Refreshments, Community Fair, and tour NSCC computer facility
- 7:00 - 7:15 p.m. Welcome: Dr. Constance Rice, President, NSCC
- 7:15 - 8:00 p.m. Lecture: "The Chemistry of Wetlands: Complex Organic Structures" by Ann Mary Nefcy
- 8:00 - 8:45 p.m. Presentation with slides: "By Whose Design?" by Dyanne Sheldon, Sheldon Associates
- 8:45 - 9:15 p.m. Community meeting: Peter Hayes, Thornton Creek Project

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## LOCATION

**Student Event Center,  
Ground Floor, College Center Building,  
North Seattle Community College,  
9600 College Way N., Seattle, WA**

## DIRECTIONS

Take I-5, exit at Northgate Mall and take Northgate Way west for two blocks. Turn south on Meridian. North Seattle Community College is a few blocks south on your left. Park in the visitor parking area and register your vehicle (for free) with campus security. The Student Events Center is directly east of campus security.

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## ANN MARY NEFCY FEATURED SPEAKER AT THE MARCH MEETING OF PUGET SOUND SECTION

Ann Mary Nefcy obtained her B. S. in Chemistry from the University of Michigan in 1971, and her M.S. in Chemistry from the University of Colorado in 1990. After working for environmental engineers and regulatory authorities, she worked for 13 years at the U.S. Geological Survey, in the National Water Quality Laboratory and in the laboratories of the Office of Hydrological Research, Polyelectrolyte Project. For the past five years, Ann Mary works as a senior chemist with ChemData, Inc., an environmental consulting firm.

### ABSTRACT

#### The Chemistry of Wetlands: Complex Organic Structures

Some scientists have the tendency to view water and soil systems at the Macro-level of soil color, rocks, plants, insects, and animals. But the real essence of the environment is at the molecular level. Ann Mary Nefcy will present an overview of the multi-disciplined projects from the chemist's viewpoint. Her presentation will include slides of wetland identifications and delineations, major environmental Superfund clean-up sites, and the world's mountains. She will cover a brief overview of "Humic Substances", the complex organic structures in water/soil systems. Today, chemical research in these membrane/micelle structures is opening new understandings in nutrient and metal transport, plant growth, transformation of pollutants, wetlands, red-tides, and the formation of chlorinated compounds in water/wastewater treatment.



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# **DYANNE M. SHELDON**

## **FEATURED SPEAKER AT THE MARCH MEETING OF PUGET SOUND SECTION**

Dyanne M. Sheldon obtained her B. S. in Botany from the University of Minnesota in 1975. Dyanne has 12 years of wetland field experience in both fresh and tidal wetlands of the Pacific Northwest. Ms. Sheldon is an expert in the fields of wetland ecology, analysis, and delineation. She has worked for King County and Jones & Stokes Associates as a wetlands planner and manager, respectively. Presently she is a principal for Sheldon & Associates, a firm specializing in environmental assessment, planning, and regulation with special emphasis on wetlands and aquatic resources.

### **ABSTRACT**

#### **By Whose Design?**

Can a wetlands watershed that was removed by urbanization be reestablished inside the urban community? The Thornton Creek Project hopes to attain this goal. Ms. Sheldon is acting as a consultant to the city of Seattle on this project. She will examine the considerations that have gone into this project-the Seattle Engineering Department's attempt to enhance an urban wetlands area. If this experiment works it could mean that wetlands once removed for urbanization can be rebuilt to sustain the rich diversity of life they once had supported.

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# Local Section Career Programming

As many of you are now aware, we have started implementing local section career programming. We are in the process of creating career programming specific to our needs here in the Puget Sound region. As part of this process, we are conducting a survey of our constituency so that we may ascertain what programs to begin implementing first. Ideally all the items listed on the survey below will be implemented, but we need your help to determine which items should receive immediate attention. Many of you filled out this survey in the December issue of the Puget Sound Chemist but not nearly enough of you. Therefore, we are giving you another reminder/opportunity to do so now. You can respond to this survey by mailing your selections to the address below or respond electronically through our Puget Sound local section web page (<http://nscx.sccd.ctc.edu/~acs>). Thank you for your help in improving career opportunities for yourself and other chemists in our region.

Please select the top 3 programs, in order of preference, that you would like to see started in the Puget Sound Section and please also include any suggestions.

- I. Publish a membership list (to include name, place of employment, work address and area of specialty) to distribute to employers and members for the purpose of networking. (This project has begun already but will require further input from members to be complete - see future issues)
- II. Expand current employer mailing list to include all local employers and include a contact or two at each company.
- III. Create a "Chemistry Career Center" in public and college libraries where employer mailing list, National ACS literature and PS ACS information would be available for check-out. (Since we have only one set of videos, they would not be included for check-out at the libraries.)
- IV. Start a job bank.
  - A. maintain a listing of those persons seeking a position thus serving as an employee resource to local employers
  - B. maintain a listing of current openings which would be posted on our web page as well as in the PS Chemist
- V. Have at least one section meeting a year pertain to career program (e.g. resume workshop, interviewing, career development - possible topics being management issues, business related topics, etc.)
- VI. Sponsor technical short courses (approximately \$200/member for 2 days compared to \$785 at national meetings) with topics arising from this membership survey.
- VII. Sponsor half-day or day long topical conferences (see February AAAS meeting announcement this issue).
- VIII. Collaborate with neighboring local sections to share some career programming and job bank.
- IX. Run employment clearing house and workshops at the regional meeting.



Form topical sub-groups to meet periodically.

• Increase networking opportunities between local sections and industry. (If you select this as a priority, please include types of opportunities desired.)

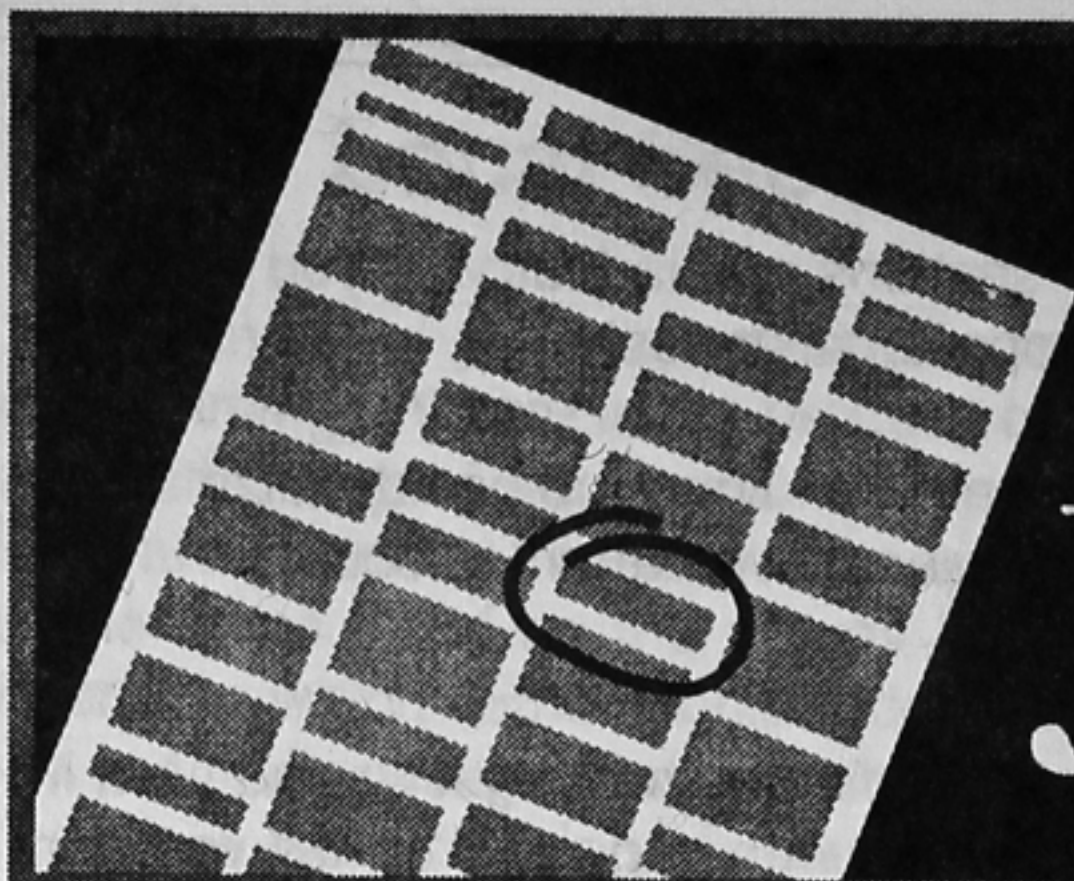
• Start a job club that could meet prior to section meetings. This club could utilize a local ACS career consultant who could review resumes, cover letters, discuss networking, and answer questions.

**Please list your top 3 choices** for future career programming in the Puget Sound area in order of preference. If you prefer, see the above list on our web page and e-mail your top choices and suggestions to [jvhv76a@prodigy.com](mailto:jvhv76a@prodigy.com)

Further suggestions:

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# Job Bank



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**Medicinal Chemist** - Ref. #PK297PSC

This key position is responsible for conducting synthesis, purification and spectroscopic analysis of novel compounds. Requires an M.S./Ph.D. in Organic Chemistry and 3-5 years experience in the synthesis of organic compounds and in the chromatographic purification and spectroscopic analysis (FTNMR, IR, etc.) of synthetic products. Pharmaceutical drug discovery experience preferred. Experience in automated solid-phase library synthesis desirable.



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**Process Chemist - Ref. #AL297PSC**

This position is responsible for conducting chemical process development activities relating to the manufacture of clinical and commercial therapeutic products. To qualify you will have a minimum of a B.S. in Chemistry and 2 years bench experience in synthetic organic chemistry. Industry experience with pharmaceutical products is preferred.

**Analytical Chemist - Ref. #KV297PSC**

Responsible for providing analytical support to product development activities. This includes conducting routine and non-routine chemical analyses of process intermediates, raw materials and drug substance materials and analytical method refinement. Requires a BA/BS in Chemistry, 2-4 years' relevant experience in a regulated environment (cGMP experience preferred) and knowledge of chromatographic techniques (HPLC and GC).

**Bioanalytical Chemist - Ref. #PC197PSC**

This position is responsible for serving as lead chemist in performing bioanalytical analysis, methods development and validation and bioanalytical project coordination in support of nonclinical and clinical studies within a regulated environment (GLP). Qualified candidates would have a B.S./B.A. degree with 5-8 years experience or a M.S. with 2-5 years experience in analytical chemistry and experience with HPLC in a GLP/cGMP environment.

**Senior Quality Control Chemist - Ref. #MM297PSC**

This position is responsible for conducting Quality Control chemical and analytical analyses on samples which relate to manufacturing of clinical and commercial therapeutic products. This includes release and stability testing using HPLC, GC, and other lab instrumentation and hardware/software in accordance with cGMP, cGLP, OSHA, and CTI regulations SOP's. To qualify you will have a minimum of a B.S. in Analytical Chemistry and 5 years bench experience in a Quality Control analytical laboratory. Industry experience with pharmaceutical products desirable.

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or: Christopher Frie, Chief Chemist (as above)  
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