



American Society of Civil Engineers

Our web site: <http://sections.asce.org/columbia/index.html>

# Columbia Section

Since October 10, 1950

## Newsletter

April, 2008

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### **Columbia Section Meeting**

**Date:** Wednesday, April 23rd, 2008

**Place:** **Richland Red Lion, Ice Harbor Room, Richland**

**Meal:** Buffet (Chef's choice) - \$15 per person  
Please pay cash or check to treasurer at meeting

**Topic:** Climate Change Predictions in the Pacific Northwest

**Speaker:** Charlette A. Geffen, Ph.D., Director  
Atmospheric Science & Global Change Division

Lunch will start at 11:30, and the presentation will begin at Noon.

RSVP to: Jay Marlow, [jmarlow@ci.richland.wa.us](mailto:jmarlow@ci.richland.wa.us) or 509-942-7540  
by April 22nd, 2008.

### **President's Message:**

Dear Members:

Our officers, Jay Marlow, Paul Smith and I, attended the March 20<sup>th</sup> luncheon meeting of the ASCE Yakima Branch. The Yakima branch is part of our Columbia Section but has its own officers. We were pleased to meet our counterparts there and to discuss interface details.

Please note that our April 23<sup>rd</sup> meeting will be held at the **Ice Harbor room at the Richland Red Lion**. Our speaker will be Charlette A. Geffen, PhD from Battelle. Her topic will be related to climate change and global warming. Our weather has a significant impact on water resource issues related Civil Engineering.

Also at our April 23<sup>rd</sup> meeting, we will be honoring those educators who are in charge of Civil Engineering programs within our section boundaries. This group includes:

Dave McLean (Department Chair at WSU-Pullman);  
Akram Hossain (CE program coordinator at WSU-Tri-Cities);  
Scott Hudson (Director of Engineering at WSU-Tri-Cities);  
Maury Fortney ( Walla Walla CC);  
Kumar Raj (Yakima Valley CC);  
Dave Krumbien (Blue Mountain CC); and  
Aissata Sidibe (Columbia Basin College).

Please mark your calendars for the April 23<sup>rd</sup> meeting.

William C. (Bill) Kinsel, President

## Topic: Climate Change Predictions in the Pacific Northwest

Dr. Geffen is the Director for the Atmospheric Science and Global Change (ASGC) Division at the Pacific Northwest National Laboratory. The mission of the division is to conduct research required to understand and mitigate the effects of the production and use of energy on the atmospheric environment, and to understand the transport, dispersion and chemical transformation of airborne contaminants and how that may affect regional and global earth systems. This research addresses one of the key missions of the Department of Energy, namely to ensure that the nation's energy system is economically and environmentally sustainable. As nearly all energy-related emissions enter the environment via the atmosphere, research on atmospheric processes and their impacts on human health and the environment, over a variety of temporal and geographic scales, are critical to understanding these consequences. Dr. Geffen will present predictions of regional climate change models that apply to the Pacific Northwest, including model uncertainties and potential implications for natural resource management.

**Speaker: Charlette A. Geffen, Ph.D., Director**  
Atmospheric Science & Global Change Division  
Fundamental Science Directorate  
Pacific Northwest National Laboratory  
PO Box 999  
Richland, WA 99352  
Email: [ca.geffen@pnl.gov](mailto:ca.geffen@pnl.gov)



Dr. Charlette Geffen is the Director for the Atmospheric Science and Global Change Division at the Pacific Northwest National Laboratory. She directs research to understand the atmospheric processes that drive regional and global earth systems, with a primary focus on climate, aerosol and cloud physics; global and regional scale modeling; integrated assessment; and complex regional meteorology and chemistry. Under the direction of Dr. Geffen, more than 90 researchers lead and contribute to programs within a number of government agencies and industry. Major program leadership and/or involvement includes the U.S. Department of Energy's Atmospheric Radiation Measurement Program, DOE's Atmospheric Science Program, and the Global Energy Technology Strategy Program, a public-private international collaboration. From the role of clouds and aerosol processes in climate change, to the effect of energy technology choices on greenhouse gas emissions, PNNL scientists are combining an extensive world-wide field observational system with laboratory research and modeling to advance our understanding of integrated Earth systems on regional and global scales.

Dr. Geffen has been with PNNL since 1977, with over thirty years of experience in strategic technology planning and assessment, environmental and energy policy, and risk assessment of energy and environmental technology systems. Her doctoral training at the Massachusetts Institute of Technology (MIT) focused on emerging environmental policy issues and the role of innovative science and technology in addressing energy and environmental concerns. Her more recent research examined the role of technology in addressing the challenges of climate change, with a focus on the transportation sector. Dr. Geffen's dissertation work on environmental performance and technology innovation in the automotive industry was one of the first to link supplier innovations to improvements in environmental performance. She received a best paper award for one of her publications based on this work.

Dr. Geffen is recognized for her strengths in building and managing teams to achieve results, and has had significant program and line management responsibilities at PNNL, including leadership of a research group in Washington DC focused on energy and environmental policy. Dr. Geffen is active in a number of professional organizations, including the American Geophysical Union, the Society of Automotive Engineers, and the International Association for the Management of Technology. She has published over fifty articles and full-length reports, and participated as a lead author on a recent National Academy of Sciences report on a workshop on collaborations between the DOE national laboratories and universities.

Dr. Geffen received her Ph.D. in Technology Management and Planning at Massachusetts Institute of Technology and holds an M.B.A. in Finance from the University of Washington and a B.S. in Civil Engineering from Stanford University. She has served in a variety of research and leadership positions during her career at the Laboratory and is also an adjunct faculty member in the Business School at Washington State University Tri-Cities.

## HOWARD PRESTON SCHOLARSHIP AWARD

The Columbia Section of the American Society of Civil Engineers invites applications for the Howard Preston Scholarship Award. The purpose of the scholarship is to promote excellence and professionalism in the field of Civil Engineering. The scholarship will provide financial support for the student's educational expenses.

There are two scholarships to be awarded this year: One in the amount of \$1,500 to a qualifying Junior, and one in the amount of \$500 to a qualifying Senior. Scholarships are in the form of certificates of award conditioned upon the enrollment of the student as specified under student eligibility requirements. Upon receipt of notice of enrollment from proper officials, a check for the amount of the award will be forwarded to the college or university to establish a credit for the student. Unexpended credit is subject to withdrawal if conduct of student is contrary to the intentions of ASCE.

STUDENT ELIGIBILITY REQUIREMENTS:	STUDENT SELECTION will be based on the following standards:	
<p><b>1.</b> Be enrolled by the fall term of 2007 in Civil Engineering with junior status in an ABET (Accreditation Board for Engineering and Technology) accredited college or university in the United States of America.</p> <p style="text-align: center;"><b>and</b></p> <p><b>2.</b> U.S. Citizenship</p> <p style="text-align: center;"><b>and</b></p> <p><b>3.</b> Have parents residing, in or have graduated from high school located within the following Columbia Section boundaries:</p> <p style="margin-left: 40px;"><i>Washington:</i> Counties of Yakima, Klickitat, Benton, Franklin, Walla Walla, and Columbia</p> <p style="margin-left: 40px;"><i>Oregon:</i> Counties of Morrow, Umatilla, Union, and Wallowa</p> <p style="text-align: center;">or</p> <p>Have been a resident of one of the counties listed above for at least two years.</p> <p style="text-align: center;">or</p> <p>Are enrolled in a college or University in the State of Washington or State of Oregon</p> <p style="text-align: center;"><b>and</b></p> <p><b>4.</b> Have an overall GPA of 3.0 or higher based on a 4.0 scale or equivalent</p>	<p><b>1.</b> Need Analysis Description</p> <p><b>2.</b> Leadership &amp; Professional Character</p> <p><b>3.</b> Scholastic</p> <p><b>4.</b> Other Factors at discretion of selection committee</p>	<p>40 %</p> <p>30 %</p> <p>20 %</p> <p>10 %</p>

## **STUDENT APPLICATION PROCEDURE**

- 1.** Send the attached application to: Travis Marden  
J-U-B ENGINEERS, Inc.  
2810 W. Clearwater Avenue, Suite 201  
Kennewick, WA 99336
- 2.** Provide directly from the college or university to the above address an official transcript showing all college work.
- 3.** Provide a description of how you are financing your education and why you feel this money is important to your financial package.

All application materials must be received no later than June 1, 2008, in order that award may be made by August 1, 2008.

**AMERICAN SOCIETY OF CIVIL ENGINEERS - COLUMBIA SECTION**

**HOWARD PRESTON SCHOLARSHIP AWARD  
APPLICATION**

**Student Full Name:** \_\_\_\_\_ **SSN:** \_\_\_\_\_

**Student Address:** \_\_\_\_\_ **Phone:** \_\_\_\_\_

**Date and Place of Birth:** \_\_\_\_\_ **Citizenship:** \_\_\_\_\_

**Father's Name:** \_\_\_\_\_

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

Phone: \_\_\_\_\_

**Mother's Name:** \_\_\_\_\_

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

(if different from father's)

Phone: \_\_\_\_\_

(if different from father's)

**Name of High School graduated from:**

\_\_\_\_\_

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

**Name and Address of Colleges or Universities attended:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

*Additional information and separate pages may be submitted to cover the requested information.*

**1. NEED ANALYSIS DESCRIPTION**

Provide a description of how you are financing your education and why you feel this money is important to your financial package.

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**2. LEADERSHIP AND PROFESSIONAL CHARACTER**

A. Offices and positions of leadership (State name of organization, position and year).

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B. List honors and awards:

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C. List last three employers (State name, address, phone, and job title and date held):

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D. List name, address, and phone of two professors for references:

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E. List membership in organizations and dates:

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F. List volunteer service for school, community, or other organization:

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**3. SCHOLASTIC**

A. Grade Point Average through June of current year:

Overall GPA: \_\_\_\_\_

Major GPA: \_\_\_\_\_

B. Provide directly from the college or university an official transcript showing education through June of the current year.

C. List honors and awards:

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ASCE MEMBER

Are you a member of ASCE? Yes \_\_\_\_\_ No \_\_\_\_\_

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**SIGNATURE OF STUDENT**

**APPLICATION SUBMITTAL**

Application must be received no later than June 1, 2008 by:

Mr. Travis Marden, Scholarship Chairperson  
J-U-B ENGINEERS, Inc.  
2810 W. Clearwater Avenue, Suite 201  
Kennewick, WA 99336  
Phone: (509) 783-2144