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Environmental Engineering Education Conference, August 3-6, 1996 at the University of Maine, Orono

Chet A. Rock
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Project Participants

Senior Personnel

Name: Rock, Chet
Worked for more than 160 Hours: Yes
Contribution to Project:
PI Rock led the organizing committee and served as the on-campus contact for the environmental education conference. He was paid by the University of Maine this work. Besides his responsibility for conference mechanics, he developed the event's program including the collection, review, and collation of presented papers. In addition, a poster session was also organized.

Post-doc

Graduate Student

Undergraduate Student

Technician, Programmer

Other Participant

Research Experience for Undergraduates

Organizational Partners

University of Maine
The University of Maine through the donation of in-kind services funded a substantial, but undocumented, portion of the conference activities. Prior to the award of the grant, UM paid the travel costs for PI Rock to attend the first committee meeting. In addition all telephone and mailing costs were absorbed.

American Academy of Environmental Engine
In addition to a contribution of $2,500 the AAEE paid the cost of publishing the conference proceedings.

Association of Environmental Engineering Prof
The AEEP provide $2,500 to support various activities associated with advertising and promoting the conference.

Other Collaborators or Contacts

Activities and Findings

Research and Education Activities:
The Conference focused on the examination of the structure and function of environmental engineering undergraduate and graduate programs. Specifically, the Conference themes included:
1. Environmental Engineering Work Force and Markets: Today and Tomorrow

2. Skills and Attributes Required of the Environmental Engineer: Practitioners' Perceptions

3. Educational Approaches and Curricula for Development of Requisite Skills: Educators' Perceptions

4. Role of Practitioners in Education and the Involvement of Educators in Practice

5. Outcome Assessment

Findings:
Presentations were made by the following speakers:

Session 1: Environmental Engineering Work Force and Markets: Today and Tomorrow
J C Goldman, Metcalf and Eddy
Phil Hall, CH2M/Hill
Darryl Hertz, M W Kellogg
Richard Miller, Miller and Associates
Dave Sonstegard, 3M Environmental Technology

Session 2: Educational Approaches and Curricula for Development of Requisite Skills: Educators' Perceptions
William P. Ball, The Johns Hopkins University
Francis A. DiGiano, Univ. of North Carolina, Chapel Hill
C. P. Leslie Grady, Clemson University
Perry L. McCarty, Stanford University

Session 3: Skills and Attributes Required of the Environmental Engineer: Practitioners' Perceptions
Robert Marini, Camp, Dresser and McKee
John Wilkinson, Exxon Research and Engineering

Session 4: Role of Practitioners in Education
Hugh J. Campbell, Jr., DuPont Chemicals
Ray Letterman, Syracuse University
Arthur Purcell, Preventive Environmental Management
David Thompson, Haley and Aldrich

Session 5: Involvement of Educators in Practice
Avery Demond, University of Michigan
Dee Ann Sanders, Oklahoma State University

Session 6: Outcome Assessment
William Anderson, AAEE
Trudy Banta, Indiana University-Purdue University
Anthony Collins, Clarkson University
Barbara Old, Colorado School of Mines
Joseph Sussman, Bayer Diagnostics

Session 7: Summary Session
Roger Dolan, AAEE President
Cliff Randall, AEEP President

Teaching Keynote Papers
Karl Smith, University of Minnesota
Cynthia Atman, University of Pittsburgh

Training and Development:
The conference focused on education, hence skills provided revolved around curriculum issues. Educators outlined the important skills that academic institutions provided and practitioners detailed the skills needed in the practice of environmental engineering.

Outcome assessment methodology was introduced to the audience by national leaders in the field.

The conference also provided a stimulating introduction of problem-based cooperative learning.

**Outreach Activities:**
Publication of proceedings

**Journal Publications**

**Books or Other One-time Publications**

Editor(s): Rock, C. A.
Bibliography: ISBN 1-883767-16-4

**Web/Internet Site**

**Other Specific Products**

**Contributions**

**Contributions within Discipline:**
Advanced the education of environmental engineers by providing faculty with new techniques for teaching and assessment. Professional engineers also gave their insight as to the skills future environmental engineers would be required to possess.

**Contributions to Other Disciplines:**
The importance of chemistry to the practice of environmental engineering was stressed and the need for additional chemistry was a recommendation.

**Contributions to Human Resource Development:**
Environmental engineering graduates are better prepared for professional practice.

**Contributions to Resources for Research and Education:**

**Contributions Beyond Science and Engineering:**

**Categories for which nothing is reported:**
Any Journal
Any Web/Internet Site
Any Product
Contributions: To Any Resources for Research and Education
Contributions: To Any Beyond Science and Engineering