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

Chet A. Rock

Principal Investigator; University of Maine, Orono

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Final Report for Period: 07/1996 - 06/1997

Submitted on: 04/12/2004

Principal Investigator: Rock, Chet A.

Award ID: 9531086

Organization: University of Maine

Title:

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

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

N.A., "Proceedings of the 1996 Environmental Engineering Education Conference", (1996). Proceedings, Published
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