

From Jeff Froyd, Project Director: Welcome to the first issue of the monthly Foundation Coalition newsletter. The purpose of the newsletter is to help faculty across Foundation Coalition partners keep abreast of what is happening. I hope it will be helpful and that you will offer suggestions to make it more useful. The newsletter also makes the debut of Brenda Bridges, communications coordinator for the Foundation Coalition. Brenda assembled the newsletter and will be working on other communication tools to help everyone understand the great work the Foundation Coalition is doing.

24–25 Sep 2001	Engineering Education Grantees Conference sponsored by the National Science Foundation Arlington VA: Quality Hotel Courthouse Plaza, 1200 North Courthouse Road http://www.danya.com/eec/ or phone 703.524.4000 or fax 703.522.6814
10–13 Oct 2001	Frontiers in Education Conference: The Future—Impact on Engineering and Science Education Reno NV: John Ascuaga’s Nugget Casino Resort http://coeweb.engr.unr.edu/~fie/
19–20 Oct 2001	ICCEE: Implementing Curricular Change in Engineering Education Schenectady NY: Union College http://doc.union.edu/iccee/
26–27 Oct 2001	Foundation Coalition Workshops Southern Illinois University—Edwardsville
3–5 Mar 2002	Cross-Coalition Conference: Share the Future III, Gainesville FL: Univ. of FL. No web site yet.
March 2002	Classroom Assessment Workshop by the A&E team Louisiana Tech
16–19 Jun 2002	ASCE Annual Conference and Exposition, Montreal, Quebec, Canada

2001 Engineering Education Grantees Conference <http://www.danya.com/eec/> The NSF is sponsoring a conference for grantees in engineering education: Engineering Education Coalitions, Action Agenda, CRCED, etc. The conference will begin on Sep 24 (9 a.m.) and will end on Sep 25 (noon). The Sep 25 agenda lists parallel interactive workshops: **Assessment** by Larry Shuman, **Change** by Nick Pendergrass, **Dissemination** (TBA), **New Directions for Engineering Education** by Tim Anderson, and **Student Learning** by Jeff Froyd. Registration is \$175 (\$125 for students). **Registration deadline is 31 Aug.**

2001 Frontiers in Education Conference <http://coeweb.engr.unr.edu/~fie/>
The 10–13 Oct 2001 FIE Conference will disseminate new ideas in engineering and computer science education, focusing on how technology changes will impact engineering and science education. It will feature K–12 educational foundations, important to engineering education’s future. One of the Oct 10 workshops will be “Inclusive Learning Communities across the Foundation Coalition” by Mary Anderson Rowland (ASU) and Jeffrey Froyd (TAMU). FC papers include:

- “Development of Engineering Thermodynamics Concept Inventory Instruments” by K. Clark Midkiff (UA), Thomas A. Litzinger (Penn State), and D. L. Evans (ASU)
- “Development of an Engineering Strength of Material Concept Inventory Assessment Instrument” by Jim Richardson (UA), Jim Morgan (TAMU), and Don Evans (ASU)
- “Engineering Curricular Change Across the Foundation Coalition: Potential Lessons from Qualitative Research” by Prudence Merton (TAMU), Carolyn Clark (TAMU), Jim Richardson (UA), and Jeffrey Froyd (TAMU)
- “Developing a Dissemination Plan” by Jeffrey Froyd (TAMU).
- “The Concept of the Concept Inventory Assessment Instrument” by D. L. Evans (ASU) and David Hestenes (ASU).
- “Development of the Signals and Systems” by Kathleen E. Wage (George Mason U.) and John R. Buck (UMD)

More details . . .

2001 Effective Strategies for Change <http://doc.union.edu/iccee/>

This 19–20 Oct 2001 workshop, “Implementing Curricular Change in Engineering Education,” will be held at Union College, Schenectady NY. Registration deadline is 1 Oct. Richard K. Miller, president of Franklin W. Olin College of Engineering, will give the keynote address. On 20 Oct the Foundation Coalition will present a workshop on the process of curricular change (based on case studies constructed from interviews on the six Coalition campuses). Other sessions will present studies of curricular change on other campuses. See the web site for program details.

2001 Workshop: Inclusive Learning Community On 26–27 Oct 2001 the FC will offer three workshops at Southern Illinois University–Edwardsville. Jim Morgan, Cesar Malave, and Jeff Froyd (all of TAMU) will facilitate workshops on “Active/Cooperative Learning,” Friday (1:30–4:30 p.m.); “Teams,” Saturday (9 a.m.–noon), and “Inclusive Learning Communities,” Saturday (1:30–4 p.m.).

2002 Cross-Coalition Conference: Share the Future III On 3–5 Mar 2002 in Gainesville FL, engineering education coalitions (Foundation, Gateway, Greenfield, and SUCCEED) will sponsor a conference of interactive two-hour workshops. It begins Mar 3 (1 p.m.) with a set of parallel workshops. Another set of parallel workshops will be offered at 3:30 p.m., followed by an evening reception. The Mar 4 schedule offers a plenary speaker, two sets of parallel workshops, poster session, and banquet. The Mar 5 program includes a plenary speaker and two sets of parallel workshops, ending at 3:30 p.m. The program committee is composed of Carl Zorowski (SUCCEED), Jack McGourty (Gateway), and Jeff Froyd (Foundation).

27–28 Aug 2001 Workshop: Developing an Assessment and Evaluation Plan for EC2000, Univ. of Bridgeport, CN. The Year 8 Assessment and Evaluation Team presented this workshop. Susan Haag (ASU), Rita Caso (TAMU), and Ann Kenimer (TAMU; a-kenimer@tamu.edu; 979.845.3677) provided an overview of ABET review processes using current criteria, education planning and assessment terms, developing objectives and outcomes for programs and courses, selecting and implementing appropriate assessment methods, and using assessment information for enabling change. Group activities yielded measurable objectives and outcomes at the program and course levels, selecting and modifying appropriate information on assessment and evaluation workshops.

16 Aug 2001 Meeting of coalition representatives from SUCCEED, Gateway, and the Foundation Coalition in Atlanta GA, to plan 3–5 Mar 2002 Cross-Coalition Conference workshops to be held in Gainesville FL, and to coordinate offering regional workshops involving the three coalitions. Carl Zorowski (SUCCEED), Jack McGourty (Gateway), and Jeff Froyd (Foundation) will prepare a list of workshops from which host institutions will select up to three. David Cordes (Foundation) and Carl Zorowski will develop a generic plan for working with each host institution. Chuck Carr (Foundation) will generate a plan for working with the workshop facilitators.

26 Jun 2001 ASEE Annual Conference and Exposition papers

- “Can an Integrated First-Year Program Continue to Work as Well After the Novelty Has Worn Off?” by N.A. Pendergrass, Raymond N. Laoulache, Emily Fowler (UMD) http://www.asee.org/conferences/search/00106_2001.PDF
- “Integration of First-Year English and Introduction to Engineering Design: A Path to Explore the Literacy and Culture of Engineering” by Sarah Duerden, Jeanne Garland, Christine Helfers, and Ronald Roedel (ASU) http://www.asee.org/conferences/search/00557_2001.PDF
- “Integration of First-Year English with Introduction to Engineering Design with an Emphasis on Questions of Ethics” by Jeanne Garland, Sarah Duerden, Christine Helfers, and Ronald Roedel (Arizona State U.) http://www.asee.org/conferences/search/00558_2001.PDF
- “Industry Case Studies at Texas A&M University” by Jim Morgan, Jan Rinehart, Jeffrey Froyd (TAMU) http://www.asee.org/conferences/search/00503_2001.PDF
- “Engineering Curricula Change Across the Foundation Coalition: How They Succeeded, What They Learned” by Prudence Merton, Carolyn Clark, Jim Richardson, Jeffrey Froyd (TAMU/TAMU/UA/TAMU) http://www.asee.org/conferences/search/00312_2001.PDF
- “Symbolic Algebra in Dynamic Systems and Controls Classes” by Joey K. Parker (UA) http://www.asee.org/conferences/search/00961_2001.PDF
- “Aligning Foundation Coalition Core Competencies and Professional Development Opportunities: A University of Wisconsin–Madison Case Study in Preparing a New Generation of Engineers” by Sandra Courter, Donna Lewis, Jodi Reeves, Jacob Eapen, Narayanan Murugesan, Dan Sebald (UWM) http://www.asee.org/conferences/search/00024_2001.PDF
- “Integrating the Mechanical Engineering Core” by Donald E. Richards (Rose-Hulman Inst. Tech.) http://www.asee.org/conferences/search/00548_2001.PDF