

Responding to the Call: Extending the Rose-Hulman Relationship via Continuing Education

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Catalyst

- The demand for continuing and professional studies has increased dramatically over the last year
- Professional Engineers in Indiana, as they are required to complete 30 hours of continuing education every two years
 - At least one (1) hour each of Ethics and Indiana Statutes and Rules applicable to the practice of Professional Engineering

Engineering Ethics

- Initial two-hour seminar designed to satisfy state requirement
- Hosted by Indianapolis Law Firm
 - Plews, Shadley, Racher & Braun, LLP
 - Attorneys are Engineers
- Case Study and Discussion (Debate)

Project Lifecycle

- Opportunity Identification and Development
 - Engineering Management
- Contracts
 - Office of Sponsored Programs
- Administrative Arrangements
 - Assistant Director of Academic Programs
- Project Deployment
 - Rose-Hulman Faculty and other Professionals
- Assessment
 - Institutional Research Planning and Assessment

Compensation

- Instructional Time (delivery)
- Course Development (prep)
- Previous Course Offerings (repeat)
- Travel

Revenue Distribution

- Once all expenses associated with a seminar have been relieved, as determined by the Sponsored Projects budget, the following distribution of revenue is followed

Department
CPS
Dean's Office
Institute

Marketing

- Word-of-Mouth from Alumni
- Entrepreneurship Networking Meeting
- Professional Societies (Local Chapters)
- Marketing/Communication office
 - Print
 - Electronic (Social Media)

Pharmaceutical Organization 1

- Mechanical Engineering Focus
 - Device Engineering
- Third-Party Coordinator
- Diverse Audience
 - Mechanical
 - Electrical
 - Civil
 - Mathematicians

Seminar Content

Day One	Day Three
Mechanical Behavior of Polymers The Effect of Solvent on Polymers Material Properties of Polymers	Failure of Plastics Design for Manufacturing Design for Injection Molding
Day Two	Day Four
Material Testing of Polymers Degradation of Polymers Viscoelastic Design	Six Sigma Methodologies Machine Design Ethics and Law

Pharmaceutical Organization 2

- Chemical Engineering Focus
 - Process Improvement and Design
- No Third-Party Coordinator
- Diverse Audience
 - Chemical
 - Electrical
 - Civil
 - Mechanical

Seminar Content

Day One*	Day Two	Day Three
Ethics Presentation Skills Technical Writing	Fluid Mechanics Thermodynamics	Process Instrumentation Process Control
Day Four	Day Five	Day Six
Process Safety Management Heat Transfer	Manufacturing Optimization Powder Handling	Project Management Manufacturing Economics

Assessment

- Hosted by Institutional Research, Planning and Assessment
- Delivered Electronically
 - Allowed for Daily Adjustments
 - Plus/Delta
- Overall Response Rate ~70%

Survey Items

Ratings of the Course

Overall impression of the course

Value of course information and content

Quality of course notes

Quality of facilities

Opinions of the Instructor(s)

Instructor's knowledge: very knowledgeable about the subject

Instructor's preparation: well-prepared for this course

Instructor's communication skills: ability to convey the relevant information

Recommendation

Recommend this course to a friend or colleague

Faculty Feedback

In what ways were you able to develop professionally through teaching the Continuing and Professional Studies course?

- *Engaging with working professionals allows me to check the currency of my knowledge and learn of new issues facing them. This has helped to keep my on campus courses relevant through actual content refreshment and compelling examples.*

Faculty Feedback

In what ways were you able to apply techniques, questions, practices, etc. from the Continuing and Professional Studies course to your traditional Rose-Hulman courses?

- *Working with professionals has taught me to look for ways to draw students into learning, rather than focusing on what I have to convey. Working professionals learn much better when their own experiences are used as the basis for learning new things. Just lecturing at them is at times almost insulting to those who work every day with the topic.*

Faculty Feedback

- *83% would do it again*
- *60% felt compensation above average*
- *40% felt compensation was average*

Future State

- Changes in Leadership
- Investigation of Distance Learning Options
- Marketing Campaign
- Strategic Partnerships

Questions



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