Packaging Science Industry Advisory Board Meeting
May 6, 2011

Packaging Science Graduate Programs
Part 1
Program background

- Graduate program began in 1983/Exec Leader began in 1993
- Unusual characteristics
  - Traditional full time/part time; executive leader (non-traditional/PT)
  - Variety of student backgrounds reflects industry and more: Printing, Packaging, Bio Sciences, Chemistry, Industrial Engineering, Engineering Technology, Business, IT, Industrial Design, Architecture, Psychology
  - One of only three graduate Packaging Science Programs in the United States
Program background (continued)

- Typically completed by:
  - FT and PT in traditional classroom and blended course delivery
  - Online delivery of a selection of 10 courses provides scheduling flexibility
  - Full time working professionals have the same program offered in a combination of intensive summer and online sessions
  - Admissions criteria: B average, 2 letters of recommendation, transcripts, well crafted letter of purpose, TOEFL and bridging if necessary
Admission Requirements

Students entering the program who do not have the equivalent of a bachelor’s degree in packaging science will be evaluated for bridging courses. Bridge courses will be identified if it is deemed the background and experience does not fully prepare the applicant for the graduate program. If bridging is identified as a necessary entrance strategy the student will be enrolled on the appropriate bridge course(s). The bridge courses may not be used for credit toward the MS degree.

In those cases where there may be some question of the capability of the applicant to complete this program of graduate study, he or she may be required to submit his or her scores on the Graduate Record Examination (GRE) to support the candidacy.
Required bridge courses:

_____ Chemistry 1011-208
_____ Organic Chem 1011-202/207
_____ Physics 1017-211
_____ Data Analysis 1016-319 or Statistics
_____ Eng. Design Graphics 0607-301 w/ packaging focus
_____ Shock and Vibration 0607-485

_____ Materials I 0607-311
_____ Materials II 0607-312
_____ Rigid Containers 0607-321
_____ Flexible Containers 0607-322
_____ Pkg for Dist 0607-432
Quarter to Semester Conversion
• Curriculum conversion
  – Curriculum Conversion Emphasis: Slight-moderate
    • Courses are all semester equivalent (SE)
    • One new course in Graduate Writing Strategies added
    • Program goals - minor re-wording and modification to include the five Program Essential Outcomes
  – Program had minor updates in 2009 (<= 10%)
    • Thesis changed from 12 to 8 credits
    • Capstone Project added for 4 credits
  – Curriculum update informed by:
    • Comparisons with benchmark curriculums from Michigan State and Clemson University
    • Discussions with colleagues from other programs & industry
    • Faculty review of prior assessment results
Quarter to Semester Conversion

System diagram with feedback

Input → Process → Output

Feedback
**Entrance strategy/required courses**

- Research Methods: PACK 701 (3 Sch)
- Graduate Writing Strategies: PACK 702 (3 Sch)

**Core courses**

- Packaging & Environment: PACK 730 (3 Sch)
- Distribution Systems: PACK 742 (3 Sch)
- Packaging for End Use: PACK 763 (3 Sch)
- Adv Packaging Dynamics: PACK 783 (3 Sch)

**Electives**

4 courses @ 3 Sch each: 12 Sch

**Exit strategies**

- Thesis: PACK 798 (6 Sch)
- Project (3) + Elective (3): PACK 797 (6 Sch)
- Comp (3) + Elective (3): PACK 795 (6 Sch)

**TOTAL**: 36 Sch
Online courses –
Packaging Administration**
Packaging & Environment*
Packaging for End Use*
Research Methods*
Advanced Economics**
Distribution Systems*
Legal Environment**
Advanced Computer Applications**
Advanced Package Design**
Special Topics**

On campus –
Advanced Dynamics*

Others -
Product Stewardship**, Asset Management**...

*required core course  **elective
Blast off – Fall 2013!!!
Packaging Science Graduate Program and Faculty update Part 2
Deanna Jacobs
Graduate Program Director (aka Cat Herder)

- Classes – Materials II, Pkg & Env (500, 700), Graduate Seminar (Innovation)
- Professional Activities – SVN, SVN, PPC, IoPP
- Director Activities – recruit, advise, coordinate, support students, instructors.
- Facilitate project activities (Dancing Deer, Marc Jacobs Intern’l) – focus on supply chain studies
- Quarter to semester conversion
- Recycling Advisory Committee for Monroe County (member)
- “Planning the funeral at birth for MoCo” (wtr 2011) – EPR dialogue

- Updates…
Updates

- Full-time
- Executive Leader
- Thesis updates
Full-time graduate program

39 FT
11 applications in process

Executive Leader

27 PT
8 applications in process
Min 2-week residence (2 courses) or 1 course/1 week

Executive Leader 2011
July 25 – Aug 5
Thesis updates

Implementing QR code technology in medical device packaging (M. Naagaraj)

Impact of biomimetics on packaging adhesives (S. Gara)

Quant vs qual data tools for sustainable pkg design (Liubkina-Yudovich)

Benchmarking returnable dunnage w/i automotive dist system (Chism)

Retention fastener preference in toy packaging (Haynes)

A comparative study of packaging orientation distribution environment utilizing different shapes of shipping containers (R. Rao)

Bag-in-box end of life (S. Yang)

Refill packaging in CPG (Perry)
A bit of human interest..

Every year Packaging Science alums from RIT contribute to gift packages prepped and sent at the holidays to the troops overseas who have an association with RIT – faculty, staff, students, brothers, sisters, friends…who serves is remembered.

RIT Packaging Science alums rock!!
Thank you!

Questions?