

Making a choice: it shouldn't be a roll of the dice

Module description:

A problem centred, interactive computer based learning module. Students will follow a decision analysis framework of a pre-prepared case study of a lead-acid battery recycling scheme in a hypothetical community. The module will culminate with students taking on the role of an independent advisory body to policy makers to analyse the options and choose the best alternative to support. Instructors will also be provided with a tool kit for effectively delivering the module in class and in web-based format.

Objectives:

Students will gain an appreciation of:

- Evidence based problem solving
- Basic concepts of decision analysis
- Risk management and policy-making
- Differences in values judgments and the challenges these present to multi-stakeholder decision making processes
- The need to address multiple impacts (environmental, public health, social, economic)
- Workable approaches for improving equity among community, policymaker and industry in policy making

Bridge students involved: Carolina Silva and Karen McCaig

Faculty involvement:

1. Tim McDaniels, speciality decision analysis and environmental policy (to be invited)
2. 1 SOEH faculty member (Ray Copes?), speciality health impact
3. 1 chemical engineering faculty, speciality recycling industry
4. 1 other faculty member from IRES, speciality environmental impacts

Target audience:

All 9 units + Integrated Engineering Program, Integrated Sciences Program and College of Health Disciplines

Duration of Module: 3 x 1hr

Time to deliver module: 18 weeks