



Agenda: Green Engineering Educators Workshop – July 2000

8:45 – 9:00 am

Welcoming Remarks – Nhan Nguyen
and Sharon Austin, US EPA, Office of
Pollution Prevention and Toxics,
Chemical Engineering Branch.

9:00 - 9:15 am

Overview of Textbook Structure and
Workshop Material.
(Case Study-Based Application of Green
Engineering Tools)
David Allen and David Shonnard

Part I. Environmental Literacy, Risk, and Regulations

9:15 - 10:30 am

Module 1: Overview of Environmental
Impacts of Chemical Processes (Ch 1),
Concepts of Environmental Risk
Assessment (Ch 2), Exposure (Ch 6) and
Introduction to Environmental
Regulations (Ch 3)

10:30 – 10:45 am
Coffee Break

10:45 – 11:15 am

Module 2: Estimation Methods for
Properties of Interest in
Environmental
Decision-Making (Ch 5)

*******Adipic Acid and Maleic
Anhydride Processes*******

Part II. Case Study Analyses: Pollution Prevention and Process Improvement at the Conceptual Design Stage

11:15 - noon

Module 3: Evaluation of Alternative
Reaction Pathways (Ch 7 and Ch 8).

12:00 - 1:30 pm
Lunch

1:30 - 2:15 pm

Module 4: Process Improvement at
the Unit Operation Level (Ch 9)

2:15 - 3:30 pm

Module 5: Process Integration of
Heat and Mass (Ch 10).

3:30 – 3:45 pm
Coffee Break

Part III. Case Study Analyses: Pollution Prevention and Process Improvement at the Detail Design Stage

3:45 – 4:30 pm

Module 6: Flowsheet Environmental
Impact Assessment (Ch 11)

4:30 – 5:00 pm

Module 7: Life Cycle Assessment
(Ch13) and Web-Based Curriculum
Materials.

5:00 – 5:15 pm

Concluding Remarks & Workshop
Evaluation
Nhan Nguyen and Sharon Austin,
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Prevention and Toxics (OPPT),
Chemical Engineering Branch (CEB)

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