

The following documentation describes the objectives and content of the workbook and training materials prepared for the February 2000 public offering of SFI 100, 200, and 300 in condensed form. Copies of the workbook are available for purchase from the Sustainable Facilities & Infrastructure Program, Georgia Tech Research Institute, Atlanta, GA. To order the workbook, contact the SFI Program Office at 404-894-8055.

## **SFI 100: Primer for Sustainable Facilities & Infrastructure**

Sunday, February 6, 2000

10:00 AM to 5:00 PM

Georgia Institute of Technology

Atlanta, Georgia

### **COURSE GOAL**

The goal of the first course in the series is to establish a common understanding of the concept of sustainability among all participants, and to provide an overview of potential sustainability strategies and their impacts. This course includes elements of all subsequent courses in the series to provide summary-level coverage for participants taking only the first course.

### **COURSE OBJECTIVES**

Upon completion of the course, participants will be able to:

- Define sustainability as it relates to the built environment;
- Identify negative impacts of existing practices in the built environment;
- Describe existing regulations that affect built environment sustainability;
- Design a strategy for incorporating sustainability as an objective in corporate and professional practices;
- Locate resources for obtaining more detailed information about specific sustainable practices; and
- Describe the costs and benefits of sustainability in the built environment;

### **TARGET AUDIENCE**

This course is designed for all stakeholders in the planning, design, construction, operation/maintenance, and deconstruction of built facilities and infrastructure including owners, operators, facility managers, planners, architects, engineers, builders/contractors, and developers.

### **COURSE CONTENT**

The course provides an overview of the concept of sustainability as it applies to built facilities and infrastructure.

### **COURSE SCHEDULE**

<b>TIME</b>	<b>TOPIC</b>	<b>SPEAKER</b>
10:00 AM	Welcome and Introductions	Dr. Annie Pearce
10:10 AM	Sustainability and the Built Environment	Dr. Annie Pearce

11:00 AM	Context and Constraints	Dr. Annie Pearce
12:00 PM	LUNCH	
1:00 PM	Economics of Built Environment Sustainability	Dr. Annie Pearce
2:00 PM	Sustainable Facility Strategies	Dr. Annie Pearce
4:00 PM	Implementation: Becoming an Agent of Change	Dr. Annie Pearce
5:00 PM	DISMISSAL	

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## **SFI 200: Assessment & Evaluation Tools for Sustainable Facilities & Infrastructure**

Wednesday, February 9, 2000

8:00 AM to 12:15 PM

Georgia Institute of Technology

Atlanta, Georgia

### **COURSE GOAL**

The goal of SFI 200 is to emphasize the need for systematic definition of goals and tracking of the impacts of actions to achieve those goals; to provide an overview of tools and methods for evaluation; to teach participants how to design an evaluation strategy for their specific situation/context.

### **COURSE OBJECTIVES**

Upon completion of the course, participants will be able to:

- Systematically identify the impacts of built facilities and infrastructure;
- Identify and select appropriate indicators to quantify impacts;
- Understand basic rules and theory of measurement;
- Be familiar with existing software tools to support the evaluation and assessment of facility impacts;
- Select appropriate software tools for facility and infrastructure evaluation;
- Design a strategy for evaluating the sustainability of the facilities encountered in professional practice; and
- Develop implementation plans, estimate cost and resource requirements, and itemize the benefits of conducting sustainability assessment.

### **TARGET AUDIENCE**

This course is designed for all stakeholders in the planning, design, construction, operation/maintenance, and deconstruction of built facilities and infrastructure including owners, operators, facility managers, planners, architects, engineers, builders/contractors, and developers.

### **COURSE CONTENT**

The course provides a review of current technologies for evaluating and assessing built facilities in terms of environmental impact and sustainability.

### **COURSE SCHEDULE**

<b>TIME</b>	<b>TOPIC</b>	<b>SPEAKER</b>
8:00 AM	Welcome and Introductions	Dr. Annie Pearce
8:10 AM	Systems Model and Attributes/Indicators	Dr. Annie Pearce
9:00 AM	EIA/ESA/Site Study	Corey Fischer
9:15 AM	Life Cycle Analysis	Sheila Jones
9:30 AM	Ecolabeling and Product/Process Standards	Sheila Jones
10:00 AM	BREAK	
10:15 AM	Assessment Tools (Single Factor and Multi-Factor)	Dr. Annie Pearce
11:00 AM	Designing an Assessment Plan	Dr. Annie Pearce
12:00 PM	Marketing	Corey Fischer
12:15 PM	DISMISSAL	

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## **SFI 300: Economics of Sustainable Facilities & Infrastructure**

Wednesday, February 9, 2000

1:00 PM to 5:15 PM

Georgia Institute of Technology

Atlanta, Georgia

### **COURSE GOAL**

The goal of SFI 300 is to provide real data and strategies for (a) understanding sustainability in terms of today's economic language; (b) introducing methods for incorporating a broader range of considerations into economics-driven project decision making; and (c) quantifying economic impacts of sustainability in capital projects.

### **COURSE OBJECTIVES**

Upon completion of the course, participants will be able to:

- Identify project design/construction features that are associated with sustainability;
- Generate sustainable alternatives to traditional solutions for specified design/construction features;
- Systematically identify costs and benefits of alternative solutions;
- Compare alternatives based upon both quantitative and qualitative cost and benefit data; and
- Formulate and present the outcome of a cost-benefit analysis.

**TARGET AUDIENCE**

This course is designed for all stakeholders in the planning, design, construction, operation/maintenance, and deconstruction of built facilities and infrastructure including owners, operators, facility managers, planners, architects, engineers, builders/contractors, and developers.

**COURSE CONTENT**

The course provides an overview of methods for quantifying economic impacts of sustainability on capital projects.

**COURSE SCHEDULE**

<b>TIME</b>	<b>TOPIC</b>	<b>SPEAKER</b>
1:00 PM	Welcome and Introductions	Dr. Annie Pearce
1:10 PM	Fundamentals of Building Economics	Dr. Annie Pearce
1:40 PM	Convincing Yourself	Dr. Annie Pearce
3:30 PM	BREAK	
3:45 AM	Convincing Your Company	Sheila Jones
4:30 PM	Convincing Your Clients	Corey Fischer
5:15 PM	DISMISSAL	