

*GoingGreen*

# EcoDesign 2001: 2nd International Symposium on Environmentally Conscious Design and Inverse Manufacturing

**CALL FOR PAPERS**

December 12-15, 2001  
Tokyo, Japan

Venue:

Tokyo Big Sight (Tokyo International Exhibition Center)

Organized by  
Union of EcoDesigners  
(Coalition of EcoDesign Societies, Japan)  
In Cooperation with ( Tentative )  
IEEE TCEE, USA  
CARE Electronics, Europe

Supported by  
Japan Environment Management Association for Industry  
Nihon Keizai Shimbun, Inc.

One of today's pressing needs is to achieve a "closed-loop system" that provides society the functions and services it needs, while at the same time improving the "circulatability" of natural resources and minimizing the amount of resources used, energy consumed, and waste produced. For this purpose, greater research and development efforts are required in the design of environmentally conscious products and processes, in inverse process technologies such as recycling and reuse, and in maintenance technologies. It is also essential to apply the results of such efforts toward life-cycle management of products and equipment. Further, it is necessary to construct new business models suitable for a sustainable "closed-loop" society, and to restructure the social system so that such models can actually be applied.

The purpose of this symposium is to foster discussion and exchange information about various topics relevant to life-cycle management and to the technologies and designs needed to achieve a sustainable "closed-loop" society. For this reason, the symposium will focus not only on new approaches in research but also on practical industrial case studies that have special technical, strategic, or economic significance.

The "Second International Symposium on Environmentally Conscious Design and Inverse Manufacturing", organized by the Union of EcoDesigners, follows up on the first, successful "EcoDesign'99" (Tokyo, February 1999), and will be held roughly 15 months after "Electronics Goes Green 2000+" (Berlin, September 2000). The Union of EcoDesigners comprises of 50 scientific societies, foundations and associations in Japan. It works in close cooperation with various organizations in the United States, Europe, and other areas, and its symposium will include specific sessions created by leading experts from around the globe, in which environmental strategies for specific products and problems will be discussed. Also featured will be an "Eco-Products 2001" exhibition which will display many of Japan's latest environmentally conscious products.

# Topics and Special Themes

## Topics

### **Category A: Environmentally Conscious Product Design**

- A-1) Life-cycle Design and Design Strategies
- A-2) Methodologies and Design Tools
- A-3) Design for X (Environment, Reusability, Maintainability, Recyclability, Disassembly, Energy-saving, etc.)
- A-4) Case Studies

### **Category B: Process Technologies and Elemental Technologies**

- B-1) Eco-Materials
- B-2) Maintenance
- B-3) Cleaner Processes and Energy-saving Processes
- B-4) Long Fatigue Life (Giga-cycle) of Materials

### **Category C: Inverse Process Technologies**

- C-1) System Design
- C-2) Reuse and Recycling (Strategies and Technologies)
- C-3) Waste Disposal and Sorting Technologies

### **Category D: Business Strategies**

- D-1) Corporate Strategy for Environmental Consciousness
- D-2) Dematerialization and Service Engineering

### **Category E: Sustainable Social Systems**

- E-1) System Design (Society, Infrastructure, Urban)
- E-2) Labeling
- E-3) Environmental Education
- E-4) Logistics
- E-5) Green Purchasing
- E-6) Environmental Accounting
- E-7) Environmental Rating

### **Category F: Environmentally Conscious Management**

- F-1) Supply Chain Management
- F-2) Life-cycle Management
- F-3) Environment Management System
- F-4) Life-cycle Assessment
- F-5) Management System Design

## Special Themes

- ST-1) Factor 10 (Resource Productivity)
- ST-2) Promotion of DFE (Design for Environment)
- ST-3) Collaboration among Asian Countries
- ST-4) Industrial Ecology
- ST-5) Recycling of Individual Products (Current and Future)
- ST-6) Research Trends in Lead-free Soldering
- ST-7) Reducing Process Materials in Chemical Industries by Micro-machining

# Program (Summary)

Wednesday, 12 December 2001

Tutorials, Technical Tours, Welcoming Reception

Thursday, 13 December 2001

Opening, Invitational Plenary Lectures, Special Sessions,  
Technical Sessions, Poster Sessions

Friday, 14 December 2001

Keynote Speeches, Technical Sessions, Special Sessions,  
Poster Sessions, Banquet

Saturday, 15 December 2001

Keynote Speeches, Technical Sessions, Special Sessions  
Union of EcoDesigners' Session, Poster Sessions

## Special Awards

» **Best paper awards (in different topics)**

» **Best poster awards**

The selections will be made by Award Committee.

However, Best Eco-Products Awards by EcoDesign 2001 participants are cancelled at this time.

## Poster Session

Poster sessions will be conducted on specific themes and will provide opportunities for direct discussions with authors.

## Technical Tours and Tutorials

Technical tours and tutorials will be held on 12 December 2001. Some facilities concerned with recycling are planned as sites for Technical Tours. Details of planned technical tours and tutorials will be announced in the Advance Program. Anyone interested in participating should contact the secretariat directly.

## Events

A Welcoming Reception will be held as follows,

In Tokyo Big Sight, from 18:00 on 12 December 2001.

All registrants will be invited.

A Buffet Banquet will be held as follows,

In Museum of Maritime Science, from 18:00 on 14 December 2001. It will cost JPY 10,000.

Details will be announced in the Advance Program.

## Exhibition: ECO-PRODUCTS 2001 Japan

Since 1999, the “Eco-Products Japan” exhibition has been held to provide a forum for exchanging and spreading ideas, information and opinions about eco-products among (a) manufacturers and suppliers, (b) governments and autonomous bodies, and (c) consumers, citizen groups and NGOs. It features exhibitions of some 300 companies' environmentally conscious products in a wide range of fields, from “home use” products such as furniture, stationery, clothing, and home appliances to “information/ service” products such as software, and products in the finance, logistics, lease/rental, and consulting fields. All participants of EcoDesign 2001 are invited to attend the “ECO-PRODUCTS 2001 Japan” exhibition, 13-15 December 2001, at Tokyo Big Sight, East Exhibition Hall. For more information, please contact directly to exhibition secretariat, e-mail address : [hasken@tokyo.nikkei.co.jp](mailto:hasken@tokyo.nikkei.co.jp).

## Optional Tours

For accompany persons, optional tours are proposed by Travel Agency (KINKI NIPPON TOURIST Co., LTD.) on the site as follows,

URL; <http://www.knt.co.jp/kokusai/packjht/jhtinde.htm>

## **Accommodations**

For accommodation following hotels are recommended.

The fees of each are shown as follows,

Hotel Nikko Tokyo; JPY 12,600 for twin

TOKYO BAY ARIAKE WASHINGTON HOTEL; JPY 10,000 for single

Ginza Capital Hotel; JPY 9,500 for single

TOYOCHO VISTA HOTEL; JPY 9,000 for single

Hotel Amista Ohi; JPY 7,500 for single

(The fees include tax and service charge, NOT included in breakfast)

Detailed information and Registration Form will be available in the advanced program on the web-site.

## Submission of Abstracts

Individuals who wish to present a technical paper should submit abstracts through our website (URL: <http://www.bcasj.or.jp/EcoDesign/>) before 21 May 2001. If an access problem is encountered, authors should contact the secretariat directly.

The Abstract should include in:

title, name(s) of author(s) and their affiliation and country, speaker's name, contact person's e-mail address, mail address, fax and telephone number, Abstracts should contain about 400 words in English text, and include keywords and category.

All abstracts will be reviewed. Notification of acceptance will be sent in late June 2001 by e-mail. Any persons having inquiries about the submission procedure are invited to contact the secretariat by e-mail at their earliest convenience.

## Official Language

The official language is English.

## Completed papers for the Proceedings

Proceedings will be published by IEEE Computer Society Press. Manuscripts are limited to six A4 pages (210 mm × 297 mm), including all figures, tables, and references.

## Important Dates

May 21	Submission deadline for abstracts
Late June	Notification of acceptance
August 31	Submission deadline for camera-ready manuscripts.
December 12–15	<i>EcoDesign 2001</i>

## Updates Information

Updates information about registration fees, special activities, and the program itself, including plenary lectures and keynote speeches, will be submitted via our website. Please check our website regularly for updates.

## Symposium Secretariat:

To make inquiries or to receive further information. Please contact:

EcoDesign 2001 Secretariat  
c/o Business Center for Academic Societies Japan  
16-9 Honkomagome 5-chome, Bunkyo-ku, Tokyo 113-8622, Japan  
Tel: +81-(0)3-5814-1430, Fax: +81-(0)3-5814-5845  
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URL: <http://www.bcasj.or.jp/EcoDesign/>

# Organization

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Japan Prestressed Concrete Engineering Association  
Japan Society for Natural Disaster Science  
Japan Society for Snow Engineering  
Japan Society of Engineering Geology  
Japan Society of Fluid Mechanics  
Japan Society of Refrigerating and Air Conditioning Engineer  
Japan Thermal Spraying Society  
Japanese Society for Engineering Education  
Japanese Society of Snow and Ice  
Manufacturing Science and Technology Center  
Personal Computer Users' Application Technology Association  
Quality Engineering Society  
The Chemical Society of Japan  
The Development Engineering Society of Japan  
The Energy Conservation Center, Japan  
The Iron and Steel Institute of Japan  
The Japan Institute of Energy  
The Japan Institute of Light Metals  
The Japan Machinery Federation  
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The Japan Society of Industrial Machinery Manufacturers  
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The Society of Instrument and Control Engineers  
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The Society of Rubber Industry Japan  
The Society of Synthetic Organic Chemistry  
The Society of Waste Management Experts  
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The Surface Finishing Society of Japan  
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(As of 11 May 2001)

# Paper Submission Form (Sample)

Please apply by using website: URL:<http://www.bcasj.or.jp/EcoDesign/>

**Submission period: From February 1, 2001 to May 21, 2001**

## EcoDesign 2001 PAPER SUBMISSION FORM

Please fill out in English. In the case of selection, mark x in ( ).

Paper Title:	
Author(s): (Family Name) (First Name) (Middle Initial)	
1	-----,-----,-----
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If co-author over 9 people, please add names in Memo 1*	
<b>Author's affiliation, country:</b> order it by author number	
<i>university, company name</i>	<i>country</i>
1	-----
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7	-----
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<b>Abstract</b> (About 400 words in English, text only)	
<b>Keywords:</b>	
Select one each: Category: ( ) A, ( ) B, ( ) C, ( ) D, ( ) E, ( ) F, ( ) ST Sub category: ( ) 1, ( ) 2, ( ) 3, ( ) 4, ( ) 5, ( ) 6, ( ) 7	
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