

PROCEEDINGS

Proceedings will be published in time for the symposium and a copy with CD will be given to each registrant at the registration desk.

TECHNICAL TOUR

A technical tour is under planning. Latest information will be provided at the LDIA 2005 Home Page.

SPONSORSHIP

Sponsored by :

Industry Applications Society, The Institute of Electrical Engineers of Japan

In cooperation with: (as of Dec. 24)

The Japan Society of Mechanical Engineers

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http://www.yumebutai.org/conf_e/



The Second Announcement
and
Call for Papers

The Fifth International Symposium
on
Linear Drives
for Industry Applications

LDIA 2005
Kobe - Awaji

September 25-28, 2005,
Awaji Yumebutai, Hyogo, Japan



URL: <http://www.ee.maritime.kobe-u.ac.jp/ldia2005/>

OBJECTIVES

The Fifth International Symposium on Linear Drives for Industry Applications (LDIA2005) will provide a forum for the discussion of present research and development activities and future prospects related to the linear drives for industry applications. Although linear drive systems have spread to applications in industry, there still remain many issues to be solved. This symposium will contribute to finding these solutions and the further development of linear drive technology.

VENUE

The Symposium will be held at the Hyogo Prefectural "Awaji Yumebutai" International Conference Center^{*1}, Awaji Island, Hyogo, Japan. Awaji Island, the island of flowers, is connected to Kobe City by the world's longest suspension bridge Akashi-Kaikyo Bridge. Travel time from Kansai International Airport to the Conference Center is less than two hours by limousine bus. Frequent bus services are available between the Conference Center and JR Maiko or San-no-miya stations, downtown Kobe City, in 30 to 40 minutes.

The world's cultural heritage "Himeji Castle" is about one hour trip by bus and train. Kyoto is about one hour and half trip by bus and train.

The 2005 World Exposition^{*2}, "Nature's Wisdom", Aichi, Japan will be held from March 25 to September 25, 2005, near by Nagoya City. The linear induction motor driven electromagnetically suspended people mover system, "Linimo"^{*3}, will be in service to connect Nagoya City and Expo site.

*1: http://www.yumebutai.org/conf_e/

*2: <http://www-0.expo2005.or.jp/en/>

*3: <http://www.linimo.jp/> (in Japanese)

ACCOMMODATION

The Westin Awaji Island Resort and Conference Center will provide ocean front deluxe twin rooms to the conference attendees and their accompany persons, with valuable conference rate. Information about other

hotels within one hour trip by bus from the conference site, will be provided through the LDIA2005 Home Page.

PROGRAM (Tentative)

- Sept. 25 Registration, Welcome Party
- Sept. 26 Opening Ceremony, Plenary Lectures, Technical Sessions, Banquet
- Sept. 27 Technical Sessions, Closing Remarks
- Sept. 28 Technical Tour

TOPICS

- 00 Trend and new development of linear drives (survey)
- 10 Electromagnetic linear motors and actuators
 - 11 linear motors
 - 12 linear actuators
 - 13 nano-, micro-actuators
 - 14 multi-dimensional linear drives
- 20 Non-electromagnetic linear motors and actuators
 - 21 linear motors
 - 22 linear actuators
 - 23 nano-, micro-actuators
 - 24 multi-dimensional linear drives
 - 25 bio-actuators
- 30 Control technologies for linear drives
 - 31 linear drive and motor control
 - 32 control theory
 - 33 applications of new control theory
 - 34 modeling and identification
- 40 Levitation technologies
 - 41 magnetic levitation for linear drives
 - 42 magnetic suspension for motor revolution
 - 43 electric field levitation
 - 44 control strategies
 - 45 novel levitation control scheme
- 50 Subsystem for linear drives
 - 51 bearings
 - 52 power sources and power conversion
 - 53 sensors and measurement systems
- 60 Applications of linear drives and levitation technologies
 - 61 transportations
 - 62 factory automation and machine tools

- 63 office automation
- 64 robotics
- 65 home and medical applications
- 70 Analyses of electromagnetic field and force field
 - 71 numerical analyses
 - 72 analyses of coupled system
 - 73 visualization
 - 74 dynamics
- 80 Materials
 - 81 permanent magnet
 - 82 superconductor
 - 83 piezo device
 - 84 magnetic materials
 - 85 special design of force elements
- 90 Other related topics and new technologies

CONTRIBUTIONS

Prospective authors should submit a single page abstract, in English, on one side of A4 or letter-size paper to the LDIA2005 secretariat in Word or PDF electronic file, by January 31, 2005. This abstract should be headed by the title of the paper, names and affiliations of authors, mailing address, phone and facsimile numbers, e-mail address, and the topic number(s), followed by the summary of the paper's contents, clearly indicating the aim and the results of the work. Please refer to latest information in the LDIA2005 Home Page.

DEADLINES

Receipt of abstracts	January 31, 2005
Notification of acceptance	March 15, 2005
Receipt of full papers	June 30, 2005

LANGUAGE

The official language of the Symposium is English, which will be used for all printed materials, presentations and discussions.