

The Fourth International Symposium on LINEAR DRIVES FOR INDUSTRY APPLICATIONS

LDIA2003

September 8 – 10, 2003
Birmingham, UK

Co-sponsored by the Institution of Electrical Engineers, UK
and the Institute of Electrical Engineers of Japan



Birmingham City Council House



IEE Midlands Engineering Centre, Austin Court

FINAL CALL FOR PAPERS

INVITATION

The 4th International Symposium on Linear Drives for Industry Applications will be held in Birmingham, UK from 8 – 10 September, 2003. It continues the series of symposia (Nagasaki – 1995; Tokyo – 1998; Nagano – 2001) which brings together engineers and scientists from different backgrounds to review progress and exchange ideas on the design, control and application of linear machines and drives for many market sectors.

SYMPOSIUM PROGRAMME (Provisional)

September 8: Registration, Welcome reception.

September 9: Opening, Plenary lectures, Technical sessions, Conference dinner.

September 10: Technical sessions, Closing reviews.

The Symposium will include invited and contributed oral presentations and poster sessions. Topics covered will include:

Electromagnetic linear motors and actuators

- linear induction / synchronous / reluctance motors
- linear permanent magnet motors
- linear electromagnetic actuators
- surface motors / spherical actuators

Other linear motion systems

- ultrasonic / electrostatic linear motors
- piezoelectric / magnetostrictive electro- and magneto- rheological actuators
- pneumatic / hydraulic systems

Design, analysis and dynamic simulation

- analytical / numerical modelling
- electromagnetic field analysis
- computer aided design
- coupled problems
- system simulation

Control systems

- single / multi-axis control
- sensorless control
- optimal control

Magnetic levitation

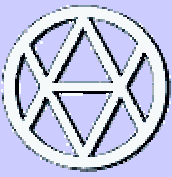
- electromagnetic / electrodynamic levitation
- active bearings
- combined levitation / propulsion
- high temperature superconducting magnetic levitation

Applications

- automotive / aerospace
- industrial
- transportation
- conveyance
- factory automation
- medical
- consumer products

Other related topics

- power supplies
- linear bearings
- linear encoders
- superconductors



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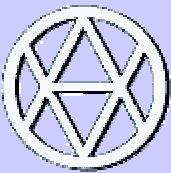


Institution of
Electrical Engineers,
UK



The University of
Sheffield

LDIA2003



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CONFERENCE VENUE

The Symposium will be held at the IEE Midlands Engineering Centre, Austin Court, Birmingham, which is situated in the centre of Birmingham, and affords easy access to Birmingham International Airport and rail links to London and Manchester. Local tourist attractions include Warwick Castle, Stratford-upon-Avon and the Ironbridge Gorge Museums.

SOCIAL PROGRAMME - A welcome drinks reception will be held on Monday 8th September, and the Symposium dinner will be held in the Birmingham City Museum and Art Gallery on Tuesday 9th September. In addition, a social programme will be arranged for accompanying persons.

ORGANISING COMMITTEE

Symposium Chairperson - Professor D Howe, University of Sheffield, UK

Programme Committee Chairperson - Dr R E Clark, University of Sheffield, UK

INTERNATIONAL ADVISORY COMMITTEE

Co-Chairpersons - Professor D Ebihara, Musashi Institute of Technology, Japan

- Professor J F Eastham, University of Bath, UK

Dr T Azukizawa, Kobe University, Japan

Prof A Binder, TU Darmstadt, Germany

Prof I Boldea, Polytechnic Inst Timisoara, Romania

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Prof H-K Jung, Seoul National University, Korea

Prof B Z Kaplan, Ben-Gurion Univ. of Negev, Israel

Dr M Karita, Japan Science & Tech. Corp, Japan

Dr I K Kim, General Atomics, USA

Prof J Kirtley, MIT, USA

Prof E Masada, Science University of Tokyo, Japan

Prof A Morini, University of Padova, Italy

Dr M A Mueller, Durham University, UK

Prof H Ohsaki, University of Tokyo, Japan

Prof F Profumo, Politecnico di Torino, Italy

Prof A-Ch Rufer, EPFL, Switzerland

Prof C Sadarangani, KTH, Sweden

Dr A C Smith, UMIST, UK

Prof H Wakiwaka, Shinshu University, Japan

Prof S G. Xu Chinese Academy of Sciences, China

Dr J-P Yonnet, LEG, France

Prof Y Y Ye, Zhejiang University, China

ABSTRACTS - Prospective authors should submit a single page abstract inclusive of figures, in English, to the Symposium Secretariat. The abstract should be headed by the paper title, the names and affiliations of all authors, and contact details for the corresponding author, viz. postal address, tel, fax and e-mail, followed by a summary of the technical content of the paper. Abstract submissions can be made by either e-mail in Adobe Acrobat (.pdf) or MS Word (.doc) format or hardcopy by post. Receipt of abstract submissions will be confirmed by e-mail. Detailed instructions for submitting abstracts, together with a model abstract and MS Word template are available on the LDIA2003 web-site (www.sheffield.ac.uk/ldia2003).

DEADLINES

Receipt of abstracts

Notification of acceptance

Receipt of full papers

28 February, 2003

31 March, 2003

30 June, 2003

INFORMATION

Updated information can be obtained through the LDIA2003 website:

<http://www.sheffield.ac.uk/ldia2003>

or from the Symposium Secretariat:

LDIA2003

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