

## Scope of the Workshop

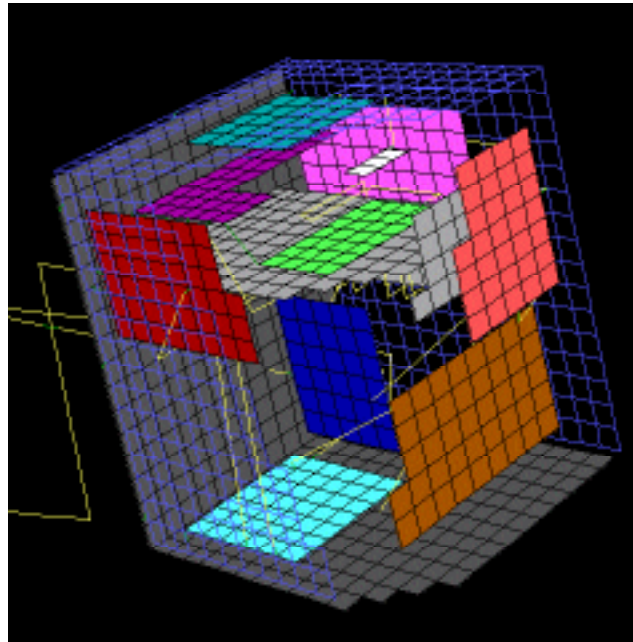
The objective of the SCEE workshops is to bring together scientists from universities and industry with the goal of intensive discussions about modelling and simulation of electronic circuits and electromagnetic fields. The workshop is mainly directed at mathematicians and electrical and electronic engineers.

## Conference topics

1. Electromagnetism (EM)
  - Finite difference time-domain methods (FDTD)
  - Antennas
  - Medical applications
  - Bio-electromagnetism
  - Electrodynamics
2. Circuit simulation
  - Radio frequency applications (RF)
  - Optical networks
  - CAD tools
  - Inverse problems
  - Optimization
  - Noise problems
  - Stochastic Differential-Algebraic Equations
  - Model reduction
  - Mobile systems
  - Power electronics
3. Coupled problems
  - Electromagnetic coupling (EMC), cross-talk
  - Interconnect
  - Substrate coupling
  - Coupling with electrical, thermal and mechanical problems
  - Co-simulation: combination of results from EM and Monte-Carlo methods
  - Inductive heating
4. Generic mathematical problems
  - Solution methods for large linear systems
  - Differential-algebraic equations

## Industry Day

Industrial involvement in SCEE-2002 is reflected in the special Industry Day which will be held on Tuesday, June 25<sup>th</sup>, with invited speakers from industry and contributions by vendors of commercial software. They will address trends, needs and plans in EM and IC design, simulation requirements, and needs for partnerships and networking between industry and universities.



*Mesh for the simulation of the electromagnetic compatibility of a sound system.*

## Venue

Both the Workshop and the Industry Day will be held at the Eindhoven University of Technology. It is situated right in the centre of the city of Eindhoven, which is in the southern part of the Netherlands. The city is often termed “light town”, because here the Philips company started more than 100 years ago with the production of light bulbs.

## Local Organising Committee

Prof. Dr. W.H.A. Schilders (chairman)  
Dr. E.J.W. ter Maten (treasurer)  
Ir. S.H.M.J. Houben (secretary)  
Prof. Dr. R.M.M. Mattheij  
Mrs. E.R.H. van Dijk

## Programme Committee

Dr. A. Bossavit (*Electricité de France, France*)  
Dr. U. Feldmann (*Infineon Technologies AG, Germany*)  
Prof. Dr. L. Demkowicz (*Univ. of Texas at Austin, USA*)  
Dr. M. Günther (*Univ. Karlsruhe, Germany*)  
Prof. Dr. U. Langer (*Johannes Kepler Univ., Austria*)  
Dr. E.J.W. ter Maten (*Philips Research, The Netherlands*)  
Prof. Dr. U. van Rienen (*Univ. Rostock, Germany*)  
Dr. J. Roychowdhury (*CeLight Inc., USA*)  
Prof. Dr. W.H.A. Schilders (*Eindhoven Univ. of Technology, The Netherlands*)  
Prof. Dr. T. Weiland (*Technische Univ. Darmstadt, Germany*)

## Scientific Advisory Committee

Prof. Dr. A.M. Anile (*Univ. of Catania, Italy*)  
Ir. G.F.M. Beenker (*Philips Research, The Netherlands*)  
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Dr. R.W. Freund (*Lucent Technologies, USA*)  
Prof. Dr. A. Gilg (*Siemens AG, Germany*)  
Prof. Dr.-Ing. K. Hameyer (*Catholic Univ. of Leuven, Belgium*)  
Dr. G. Hebermehl (*Weierstrass Inst. Berlin, Germany*)  
Dr. R. Hiptmair (*Univ. of Tübingen, Germany*)  
Prof. Dr. L. Kettunen (*Tampere Univ. of Technology, Finland*)  
Dr. S. Kurz (*Robert Bosch GmbH, Germany*)  
Prof. Dr.-Ing. W. Mathis (*Univ. of Hannover, Germany*)  
Prof. Dr.sc.nat. R. März (*Humboldt-Univ., Germany*)  
Prof. Dr. I. Munteanu (*Univ. “Politehnica” din Bucuresti, Romania*)  
Prof. Dr. P. Rentrop (*Univ. Karlsruhe, Germany*)

## Invited speakers

The opening lecture of the conference on Sunday, June 23<sup>rd</sup> at 6 pm will be delivered by **Prof. Dr. Susan Hagness** from the University of Wisconsin-Madison (USA). She is an expert in the field of computational electromagnetics, and co-author of the well-known book on FDTD methods together with Prof. Dr. Alan Taflove.

The remaining invited speakers for Computational Electromagnetics are **Dr. Patrick Joly** from INRIA, Le Chesnay (France), **Dr.-Ing. Ralph Schuhmann** from TU Darmstadt (Germany) and **Prof. Dr. Igor Tsukerman** from the University of Akron (USA).

For the field of Circuit Simulation invitations have been accepted by **Dr.-Ing. habil. Peter Schwarz** from the Fraunhofer-Institute for Integrated Circuits in Dresden (Germany), and **Dr. Tom Kevenaer** from the Philips Research Laboratories in Eindhoven (The Netherlands).

Finally, **Prof. Antonio Di Carlo** from the Università degli Studi "Roma Tre" (Italy) has been invited to speak on Coupled Problems.

## Registration

The preferred method of registration is the online registration via the homepage of SCEE-2002 listed on the front of this flyer. If this is not possible, participants may contact Mrs. Enna van Dijk by electronic mail at [analyse@win.tue.nl](mailto:analyse@win.tue.nl), or by ordinary mail to the address listed on the back of this flyer (see "Cancellation of registration").

## Registration fees

Registration fees cover workshop attendance, Industry Day, book of abstracts, proceedings, coffee/tea, conference dinner and sightseeing tour.

- On receipt before April 30, 2002: 150 Euro (university)  
400 Euro (industry)
- Payment after April 30, 2002: 200 Euro (university)  
450 Euro (industry)

It should be noted that the organisation will use these deadlines very strictly.

## Payment

All payments are requested to be made in Euro by bank transfer. Credit cards and cheques can not be accepted. All banking costs have to be paid by the participant.

Account number: 6167011 (Postbank)  
Account holder: Stichting SCEE, Waalre, The Netherlands  
IBAN: NL37PSTB0006167011

## Cancellation of registration

Any cancellations or changes must be made in writing to:

SCEE-2002/Mrs. Enna van Dijk  
Eindhoven University of Technology (HG8.38)  
PO Box 513  
5600 MD Eindhoven, The Netherlands

Upon receipt of a written cancellation notice before June 1, 2002, 70% of the total registration fee will be refunded. For cancellations after June 1, 2002, no refund can be made. All refunds will be processed after the workshop.

## Accommodation

Accommodation is completely handled by the Tourist Office in Eindhoven:

VVV Eindhoven  
PO Box 7  
5600 AA Eindhoven, The Netherlands  
Tel.: +31-40-2979100  
Email: [info@vvveindhoven.nl](mailto:info@vvveindhoven.nl)

## Important dates

Deadline for submission of abstracts: January 31, 2002  
Notification of acceptance: March 15, 2002  
Deadline for early registration: April 30, 2002

**TU/e** technische  
universiteit  
eindhoven



**PHILIPS**

# 4<sup>th</sup> International Workshop

## SCEE-2002

# Scientific Computing in Electrical Engineering



**June 23-28, 2002**

**University of Technology  
Eindhoven, The Netherlands**

<http://www.win.tue.nl/scee2002>