



EPS 10 Trends in Physics

10TH GENERAL CONFERENCE
OF THE EUROPEAN PHYSICAL SOCIETY

9-13 September 1996
Hotel Meliá Sevilla, Seville, Spain

On EurophysNet at <http://epswww.epfl.ch/conf/eps10.html>

Organizers
Conference Chairs
International Programme Committee

Royal Spanish Physical Society/Portuguese Physical Society
L. Lozano Leyva (Sevilla) & C. Matos Ferreira (Lisbon)
H. Walther (Garching), Chair

PLENARY TALKS

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|--|---|
| L. Alvarez-Gaumé, Geneva | Theory of particle physics |
| P. Bak, Brookhaven, USA | Self-organized criticality & punctuated equilibria |
| A. de Rújula, Geneva | Antimatter in the Universe |
| S. Haroche, Paris | Testing quantum mechanics with atoms & photons in cavities |
| K. Lackner, Garching | New concepts in fusion & the role of ITER |
| V. Letokhov, Moscow | Atomic optics & interferometry with laser light |
| C. Llewellyn Smith, Geneva | Planned experiments on LHC |
| M.L. Perl, Stanford, USA | Conventional & speculative experiments in elementary particle physics |
| J. Pinto Peixoto, Lisbon | Physics of climate |
| A. Quintanilha, Porto | Molecular markers of oxidative stress in biology & medicine |
| N.F. Ramsey, Harvard, USA | Symmetry tests in physics |
| G. Sawatzky, Groningen | Strongly correlated systems:
From magnetic insulators to high-T _c superconductors |
| B. Schutz, Cardiff | Gravitational wave detection |
| P. Söding, Zeuthen | Progress in understanding particle structures |
| G. Tammann, Basle | Expansion of the Universe |
| B. van Linden van der Heuvell, Amsterdam | Time versus frequency resolved experiments in atom-light interactions |
| J. Vervier, Louvain | Nuclear astrophysics with radioactive beams |
| K. von Klitzing, Stuttgart | Quantum transport in semiconductor nanostructures |
| G. Wegner, Mainz | New polymers, polymer systems & their applications |
| A. Tiemblo Ramos, Madrid | Cultural Talk:
The road to the question |

PANEL DISCUSSION (F. Schneider, Dreieich, chair)
Job Opportunities for Young Physicists

EPS GENERAL MEETING: 13.00-14.00 hours, Wednesday, 11 September 1996.

INTERDIVISIONAL GROUP FOR APPLIED PHYSICS & PHYSICS IN INDUSTRY

Inaugural Meeting: 10.00 hours, Saturday, 14 September 1996
Contact: P.M. Melville, IoP, 47 Belgrave Sq., London, SW1X 8QX, UK
Tel +44-171-265 11 11, Fax +44-171-259 60 02, Email iop@ulcc.ac.uk

SATELLITE MEETING

Physics of Materials for Solar Energy Conversion (Sevilla); 16-20 September 1996
Contact: A. Sutor Weiner, Laboratoire de Photophysique Moléculaire, Bât. 213, Université de Paris XI, F-91405 Orsay
Tel +33-1-69 41 74 68, Fax +33-1-69 41 67 77, Email annick@scipion.ppm.u-psud.fr

CMD-EPS '96

15TH GENERAL CONFERENCE OF THE CONDENSED MATTER DIVISION
OF THE EUROPEAN PHYSICAL SOCIETY

22-25 April 1996

Grand Dino Conference Centre, Baveno-Stresa, Lake Maggiore, Italy

On EurophysNet at <http://epswww.epfl.ch/conf/cmd96.html>

Conference Chair A. Stella (Pavia)
Local Organizing Committee Chair G. Guizzetti (Pavia)
Scientific Secretary L.C. Andreani (Pavia)
Programme Committee Chair G. Chiarotti (Pavia)

Organizing Secretariat & Further Information

PRAGMA, CMD-EPS'96, via S. Giovanni in Borgo, 4, I-27100 Pavia, Italy
Tel +39-382-30 28 59, Fax +39-382-276 97

Late registration, with a higher registration fee, as from 1 March 1996

SYMPOSIA

High-pressure phases; Isotropically engineered materials; Computational physics; Clusters & fullerenes; Point contact spectroscopy; STM ballistic effects; High-T_c superconductors; Vortices in superconductors & superfluids; Magnetic nanostructures; Surfaces at atomic resolution; Semiconductor nanostructures & nanocavities; Atomic mobility & tunnelling; Conducting polymers; Thin polymer layers & interfaces

Organizing Secretariat & Further Information

PROCONSUR, Avda. San Francisco Javier 14, 4th Floor, E-41018 Seville, Spain
Tel +34-5-492 27 55, Fax +34-5-492 30 15, E-mail eps10@cica.es

Deadlines:

Abstracts 1 April 1996
Registration 15 May 1996
Hotel Reservation 15 May 1996
Late Registration 15 August 1996 (additional registration fee after this date)

Grants for young physicists

A significant number of grants for physicists less than 30 years old are available. To apply, please send a Letter of Recommendation from the head of department to the Organizing Secretariat indicating the applicant's age, field of interest and justification for a grant.

PARALLEL SYMPOSIA

Title and Organizer/s
Poster sessions take place before or after symposia

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|---|--|
| Bose-Einstein condensation | J.T.M. Walraven Amsterdam |
| Energy policies & ecological impact | R. Dekeyser, Leuven |
| Experiments on quantum phenomena | C. Cohen-Tannoudji, Paris/J. Dalibard, Paris |
| Fluctuations in low & high temperature plasmas & in hydrodynamic systems | C. Hidalgo, Madrid/A.Piel, Kiel |
| Fullerenes & nanotubes | L. Forro, Lausanne |
| Lasers & tunnelling microscopy | N. Kroó, Budapest |
| Material processing by plasmas | D. C. Schram, Eindhoven |
| Neutrino physics | T. Kirsten, Heidelberg/R.L. Mössbauer, Garching |
| New perspectives in nuclear physics | R.A. Ricci, Legnaro |
| Physics education | C.M. Ferreira, Lisbon/H.Ferdinande, Ghent/G. Tibell, Uppsala |
| Physics with ion-storage cooler rings | M. Larsson, Stockholm/R. Schuch, Stockholm |
| Quantum computing & quantum telecommunication | A. Ekert, Oxford/A. Zeilinger, Innsbruck |
| Results of the European Space Agency satellites ISO & SOHO (cosponsored by the European Astronomical Society) | V. Domingo, Noordwijk/M. Kessler, Noordwijk |
| Studies of future linear colliders | R. Brinkmann, Hamburg |
| Superconductivity & accelerators. | C. Benvenuti, Geneva |
| University & industry | J.C. Lehman, Paris |

CECIL POWELL MEMORIAL LECTURE Sir Arnold Wolfendale, London
Public understanding of physics - The British experience

Contributions for oral or poster presentation solicited

Abstracts of proposed contributions for the oral symposia or for the poster sessions are solicited. Those related to a symposium will be forwarded to the symposium chair who will decide upon acceptance for the symposium as an oral presentation. Contributions will be mainly presented as posters. Abstracts (camera ready, of one page, in English and including figures) should reach G. Thomas, EPS 10, BP 69, CH-1213 Petit-Lancy 2, Switzerland, by 1 April 1996.

Abstracts

An Abstracts Booklet will be distributed at the conference. Camera ready abstracts, of one page, in English, and including figures, should reach G. Thomas, EPS 10, BP 69, CH-1213 Petit-Lancy 2, Switzerland, by 1 April 1996.

PLENARY TALKS

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|--|--|
| Y. Bruynsraede, Leuven | New phenomena in nanostructured materials |
| R.A. Cowley, Oxford | Are there two length scales at phase transitions? |
| T.P. Martin, Stuttgart | Metal clusters |
| F. Sette, Grenoble | Collective dynamics in liquid water by inelastic X-ray scattering with meV energy resolution |
| E. Tosatti, Trieste | Order & disorder at crystal surfaces |
| 1996 HEWLETT-PACKARD EUROPHYSICS PRIZE | |
| R.H. Friend, Cambridge | Polymeric light-emitting diodes |

SPECIAL PLENARY SESSION ON APPLIED PHYSICS

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|-------------------------------|---|
| F. Carpasso, Murray Hill, USA | Quantum cascade lasers |
| M. Coey, Dublin | Uses of permanent magnets in industry |
| O. Lounasmaa, Helsinki | Medical applications of squids in neuro- & cardio-magnetism |
| B. Smit, Amsterdam | Computational physics in industry |

SPECIAL EVENING SESSION ON SCIENCE & SOCIETY

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| H. Curien | Solid-state physics in governmental projects |
| | Solid-state physics in industry |

FORUM ON LARGE FACILITIES

Invited Speakers: K. Unterrainer (Vienna), M. Springford (Bristol), A. Furrer (Zurich)