



[\[Back to start page\]](#) [\[PDF version\]](#)

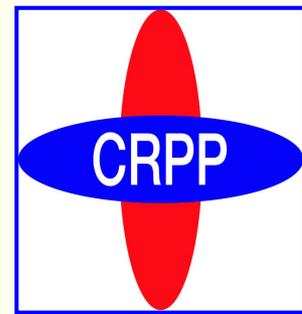
The 36th European Physical Society Conference on
Plasma Physics



was held in the 38

National Palace of Culture, Sofia, Bulgaria.

The conference was organised on behalf of the [European Physical Society](#)
by the [Union of Physicists of Bulgaria](#) and [Sofia University "St. Kliment Ohridski"](#), [Faculty of Physics](#)



Preface of the Editors

The 36th European Physical Society (EPS) Conference on Plasma Physics was held in Sofia, Bulgaria, at the National Palace of Culture from 29th of June to the 3rd of July, 2009.

The scientific programme of the conference and the selection of papers were the responsibility of the international Programme Committee appointed by the board of the EPS Plasma Physics Division. This committee selected 15 invited plenary talks and 69 invited parallel talks. The PC also selected 70 contributed orals and 494 posters for presentation. The 36th EPS Conference brought together 532 plasma physicists from 38 countries. The Conference Programme included four regular sessions: Magnetic Confinement Fusion; Beam Plasmas and Inertial Fusion; Dusty and Low Temperature Plasmas; Basic Plasmas and Space and Astrophysical Plasmas.

The Conference Programme had three additionally sessions: "ITER" chaired by Carlos Hidalgo and Piero Martin, "Education in Plasmas" chaired by Piero Martin, and "Women in Physics" chaired by Elizabeth Rachlew.

Two satellite meetings were organized during the 36th EPS Conference on Plasma Physics:

The 2nd International Workshop on Plasmas for Environmental Issues took place on the conference site, on the afternoons of 2nd and 3rd July. The sessions were chaired by Elena Tatarova and Vasco Guerra.

EFTSOMP2009 – Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetized Plasmas took place on 6th and 7th July 2009 in Sofia, Bulgaria at the Hilton Sofia Hotel.

This year's Hannes Alfvén prize was awarded to **Prof. Jürgen Meyer-ter-Vehn** (Max Plank Institute of Quantum Optics), who gave a talk entitled "Basic studies into high power laser plasmas: from laser fusion to laser accelerators".

The 2009 **Plasma Physics Innovation Award** was awarded to **Prof. Emmanuel Marode** (Laboratoire de Physique des Gaz et des Plasmas, Université Paris-Sud 11) for "research which has demonstrably led to robust innovative applications or important effects on society".

Prof. Marode gave a talk entitled “Physics and applications of atmospheric non thermal air plasma with reference to environment”.

The Plasma Physics Division of the EPS sponsored the EPS PPD PhD Research Award that recognizes exceptional quality of work carried out by young physicists as part of their PhD research in any area of plasma physics. The prize was awarded to three students: **Cedric Thaury (FR)**, **Ian Chapman (UK)**, **Tilman Lunt (GER)**.

For the fifth time, Professor Sanae-I Itoh, in agreement with the conference organisers, has offered the **Itoh Project Prize in Plasma Turbulence** to students presenting a poster at the conference. The prize was awarded to **Tim Happel** from **EURATOM-CIEMAT** who won the opportunity to visit Kyushu University, Japan for one week, including flight tickets and living expenses.

The invited papers have been refereed by members of the Programme Committee and invited experienced scientists. The proceedings will be published in December 2009 in a special issue of the journal Plasma Physics and Controlled Fusion. A copy will be sent to each participant that requested one with the registration and paid the correct fee. All participants who did not request a copy yet still wish one are encouraged to contact the LOC (valid only whilst copies are available).

The ELISE conference submission program was developed at the Centre des Recherches en Physique des Plasmas (CRPP) at the Ecole Polytechnique Fédérale de Lausanne (EPFL) by Ch. Nieswand and B.P. Duval.

For this conference it was operated by B.P. Duval for both the abstract submission process and the oral and poster contribution submissions. Further information on the operation of ELISE for this conference is available in [\[About the CDRom\]](#)

Final editing and CD-ROM production was carried out by the Local Organising Committee using the submissions processed by ELISE.

Matey Mateev and Evgenia Benova

The Bulgarian participants in the Conference were completely or partially supported by the National Science Fund under Grant No DO-02/120/29.06.2009.

International Programme Committee:

Sylvie Jacquemot (Chair PC)
Carlos Hidalgo Spain (Chair EPS PPD)

Magnetic Confinement Fusion

Piero Martin, Italy

Marina Bécoulet, France

Lorella Carraro, Italy

Stefano Coda, Switzerland

Kieran Gibson, United Kingdom

Ken McClements, United Kingdom

François Ryter, Germany

Beam Plasmas and Inertial Fusion

Michel Koenig, France

Andrea Macchi, Italy

Stuart Mangles, United Kingdom

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Dusty and Low Temperature Plasmas

Volker Schultz-von der Gathen, Germany

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Svetlana Ratynskaia, Sweden

Dirk Uhrlandt, Germany

Satoshi Hamaguchi, Japan

Basic Plasmas and Space and Astrophysical Plasmas

Tito Mendonça, Portugal

Valery Nakariakov, United Kingdom

Pavel Sasorov, Russia

Loukas Vlahos, Greece

Local Organising Committee:

Matey Mateev (Chair)

Evgenia Benova (Scientific Secretary)

Basil P. Duval (CH) (Elise)

Tsviatko Popov