

WORKSHOP ON PLASMA DIAGNOSTICS AND INDUSTRIAL APPLICATIONS OF PLASMAS

(12 - 13 October 2000)

FINAL PROGRAMME

Sessions were held at the Seminar Room at the Main Building

Thursday, 12 October

- 8:00 - 9:00 *REGISTRATION* – Main building room 304b, second floor
with the secretary (int. tel. 290)
Breakfast provided at the Main Building Bar
- 9:00 - 9:30 Opening, introduction, and purpose of the workshop
Prof. A. Wootton
- 9:30 - 9:45 Invited: "The Role of the IAEA in plasma physics and related
science"
Prof. Tom Dolan
- 9:45 - 10:15 Discussion on purpose of workshop and IAEA role
and exchange of ideas on workshop organization
All
- 10:15 - 10:45 *Coffee break*
- 10:45 - 11:30 Invited: "Industrial applications of small plasma devices and
related diagnostics"
Prof. Jorge N. Feugeas
- 11:30 - 12:00 Discussion of the topic: industrial applications and related
diagnostics
All
- 12:00 - 13:30 Lunch
- 13:30 - 14:30 Invited: "Industrial application of plasmas: Case studies in
commercialization"
Prof. P.I. John

14:30 - 15:00 Discussion of the topic: industrial application of plasmas:
Case studies in commercialization"
All

15:00 - 15:30 Contributed talks (15 mins each)

Plasma Nitriding on H11 materials and some field
trial data on hot forging dies
Dr. Dushyant Kothari

15:30 - 16:00 Coffee break

16:00-end of day Contributed talks (15 mins each)

Application of plasma in natural gas conversion
Dr. Naser Seyed Matin

Plasma Processing
Dr. Saravanan Padmanapan

Characterization of accelerating plasmas
Dr. Trilok Kaushik

Friday 13 October

8:00 - 9:00 Breakfast provided at the Main Building Bar

9:00 - 10:00 Invited: "Co-operation within small countries in the field of
plasma science and attempts to apply it to the local
industrial needs" (with discussions)
Profs. Lee Sing and V. Gribkov

10:00 - 11:00 Invited: "Fusion related diagnostics and the developing
nations" (with discussions)
Prof. P. Stott

11:00 - 11:30 *Coffee break*

11:30 - 12:30 Contributed talks (15 mins each)

Stark broadening data for plasma diagnostics,
technological applications and inertial fusion
plasma research
Dr. Milan Dimitrijevic

Plasma position modelling and control in Damavand
Tokamak
Dr. Majid Emami-Khonsari

12:30 - 14:00 *Lunch*

14:00 - 15:00 Invited: "Plasma diagnostics in space"
Prof. Paul Cloutier

15:00 - 15:30 *Coffee break*

15:30-end of day Presentations on any relevant topic or discussions

Small plasma devices and diagnostics tools for R&D
in the Philippines
Dr. Alexander G. Mendenilla

Laser produced plasmas as source for ion implantation
in industry
Prof. H. Hora

Tailoring of Copper K-alpha radiation from a low energy
plasma focus
Dr. Mohammad Zakaullah

Closing

