

EUROPEAN WORKSHOP: “FUSION IN DUBROVNIK”

Co-Chairs:

Tonči Tadić, Ruđer Bošković Institute, Zagreb, Croatia

Prof Steven Cowley, Culham Centre for Fusion Energy, United Kingdom

PROGRAMME

April 2, 2014

12.30-15.00 Arrival of participants
18.00-20.00 Welcome drink, Hotel “Lero”

April 3, 2014

a) Introduction to fusion energy and related science & technology issues

09:00-09:15 Tonči Tadić & Prof Steven Cowley: Opening & Introductory remarks
09:15-09:45 Prof Steve Cowley: ITER & European Fusion Prospective
09:45-10:15 Martin Cox: The structure and governing bodies of the EU fusion programme
10:15-10:45 Elizabeth Surrey: European fusion R&D

10:45-11:15 Coffee break – “Sesame” bar

b) Plasma facing components

11:15-11:30 Paul Coad & Aleksandra Baron-Wiechec: Plasma Surface Interaction
11:30-12:00 Ivančica Bogdanović-Radović: Analyses of plasma facing surfaces by IBA methods (ERDA, NRA, RBS, Heavy ion microbeam)
12:30-12:30 Panel discussion – Plasma facing components; moderators: Paul Coad & Ivančica Bogdanović-Radović

12:30-13:30 Lunch – “Sesame” bar

c) Fusion materials & Tritium

13:30-13:45 Chris Hardie: Materials & Radiation Damage
13:45-14:15 Mladen Prester: Magnetic dynamics of the collective spin reversal: The case of magnetic relaxations in ferromagnetic alloys
14:15-14:30 Vinko Šurija: Determination of magnetic structure and magnon excitation levels in quasi 0D tetramer system CuSeO₃
14:30-14:45 Robert Smith: Tritium
14:45-15:15 Panel discussion: Fusion Materials; moderators: Chris Hardie & Mladen Prester

15:15-15:45 Coffee break – “Sesame” bar

d) Radiation Physics & Neutronics

- 15:45-16:00 Lee Packer: Radiation Physics & Neutronics
16:00-16:30 Milko Jakšić: Microbeam & IBIC for radiation hardness studies of radiation detectors and electronics
16:30-16:45 Tonči Tadić: Materials irradiation by single or dual ion beams
16:45-17:15 Panel discussion: Radiation Physics; moderators: Lee Packer & Milko Jakšić

20:00-22:00 Dinner at Restaurant “Ragusa”

April 4, 2014

e) Plasma spectroscopy

- 09:15-09:30 Martin O’Mullane: Plasma Spectroscopy
09:30-10:00 Prof Damir Veža: Atomic line shift and broadening in plasma diagnostics and studies of atomic interactions
10:00-10:15 Nikša Krstulović: LIBS diagnostics
10:15-10:45 Panel discussion: Plasma spectroscopy; moderators: Martin O’Mullane & Damir Veža

10:45-11:15 Coffee break – “Sesame” bar

f) Numerical modeling of EM fields for fusion application

- 11:15-11:45 Prof Dragan Poljak, Vicko Dorić, Mario Cvetković: On Numerical Modeling of some Fusion Related Phenomena
11:45-12:15 Predrag Lazić, Hrvoje Štefančić: Electrostatic modeling for fusion applications with Robin Hood Solver
12:15-12:30 Silvestar Šesnić, Dragan Poljak: A review of analytical solutions to the Grad-Shafranov equation for tokamak equilibrium
12:30-13:00 Panel discussion: Numerical modelling; moderators: Dragan Poljak & Predrag Lazić

13:00-14:00 Lunch – “Sesame” bar

14:30-16:30 Guided sightseeing of the Old City of Dubrovnik

April 5, 2014

Departure of participants