RAPID

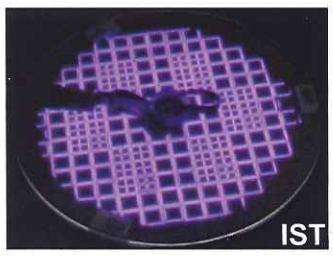
Reactive Atmospheric Plasma processIng eDucation network

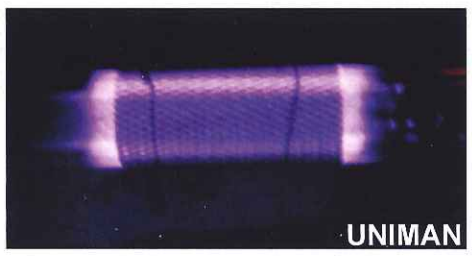
Marie-Curie Initial Training Network (MC-ITN)

Scientific Goals

Plasma Physics meets Plasma Chemistry

RAPID (Reactive Atmospheric Plasma processIng - eDucation network) is an interdisciplinary initial training network (ITN) at the intersection of chemistry, physics and engineering aimed particularly at the development of non-equilibrium reactive processes in atmospheric pressure plasmas.





Atmospheric Pressure Plasma Processing

Atmospheric-pressure (AP) plasmas are in the focus of the current interest in plasma technology due to their ease of integration in many industrial processes. Emerging research topics and fields such as large area solar cells, barrier coatings to improve the permeation properties of polymers and plasma chemical gas conversion are selected within RAPID.

Full Partners: Ruhr-University Bochum, Germany - Eindhoven University of Technology, The Netherlands - University of Antwerp, Belgium - CNRS, France - FUJI, The Netherlands - University of Ulster, United Kingdom - University of Manchester, United Kingdom - VITO, Belgium - Tyndall National Institute, Ireland - Fraunhofer IST, Germany
Associated Partners: TNO, The Netherlands - SEMCO, France - CPI, France - Plasmawerk, Germany - BOSCH, Germany - Oxford Instruments, United Kingdom - Tantec, Denmark - InnoPhysics, The Netherlands - Plasma Clean Ltd, United Kingdom - Picosun Oy, Finland

Research and Training

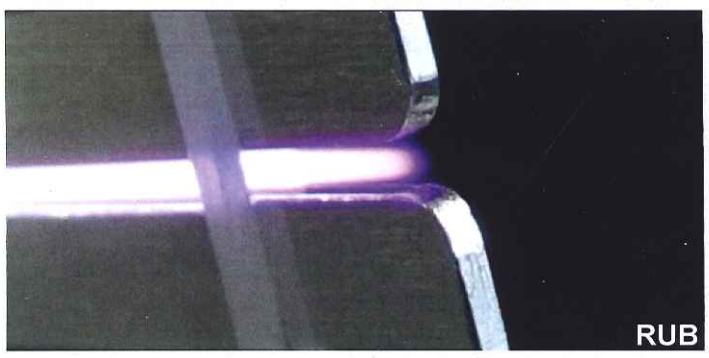
Research Work Packages

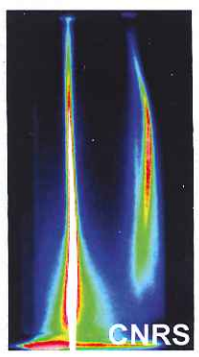
- Modeling and Simulation
- 1D Systems - Plasma bulk processes
- 2D Systems - Thin Films
- 3D Systems - Localised treatments

Training Programme

The central motivation and goal for the Multi-Partner ITN-RAPID is to combine the disciplines of physics, chemical engineering, chemistry, fluid dynamics, material science and plasma modeling into one consortium. The research and training of 12 Early-Stage Researchers (ESR/PhD) and 3 Experienced Researchers (ER/PostDocs) in RAPID covers diverse fields ranging from theory and simulation to diagnostics and applications.

The RAPID network is designed to promote the career of the fellows actively. Each fellow will be supervised by two principal mentors – an academic supervisor and an industry mentor.





Job Announcements

PhD and PostDoc Positions

RAPID offers Marie-Curie fellowships for **12 Early-Stage Researchers (ESR/PhDs; for 36 months)** and **3 Experienced Researchers (ER/PostDocs; for 20-24 months)**.

All details including conditions for recruitment, available positions, how to apply, research projects and training programme are available at the network's web site: **www.rapid-itn.eu**

Starting Date: 1st October 2013
Duration: 48 months

Coordination office

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