



10/11/04

UK Network In Non-Thermal Plasmas

Dear Professor Nick Braithwaite

I strongly support the proposal to establish in the UK a network devoted to the topic of non thermal plasma science. I, and my colleague Dr C Mahony, would be pleased to join in with the initiative, in association with all themes (1-4), with particular emphasis on theme 2

I am prepared, as part of the partnership, to make available to other partners some of the plasma sources and diagnostic systems that we have developed in recent years. These facilities (see examples below) will be available for student/post-doc exchange, short "proof-of-principle" projects and more detailed collaborative projects.

I believe the UK community will benefit greatly from the cohesion that this network will bring and I look forward to participating in this venture.

Plasma Based Facilities

1. Custom IRINA system comprising 3 integrated chambers for ICP, dual frequency CCP and ion & atom beam irradiation along with electrical and optical diagnostics, and mass-energy analysis (Hiden EQP). For characterisation and processing with halogen-based gas mixtures and hydrocarbon based mixtures.
2. Microwave – ECR plasma system for characterisation and processing with hydrocarbon based plasmas over a wide pressure and substrate temperature range. Mass-energy analysis diagnostics, optical and infra-red surface and plasma diagnostics (currently under development)

Yours Sincerely

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