

**Symposium in honor of the 80th birthday
of Professor Micheal J. Seaoton and 70th
birthday of Dr. Werner Eissner:**

**ADVANCES IN ATOMIC PHYSICS
AND APPLICATIONS TO
ASTROPHYSICS**

**Department of Physics and Astronomy
University College London
London, England
December 13, 2002**

SOC: Sultana N. Nahar (U.S.A.)

LOC: Hannelore Saraph (U.K), Peter J. Storey (U.K)

Support: Department of Physics & Astronomy, UCL

PROGRAM

9:30 - 9:45 am - Coffee

Welcome to:

Professor Michael J. Seaton & Dr. Werner Eissner

9:45 am - Opening Remarks - Sultana N. Nahar (Ohio State)

9:50 am - "Welcome Note" - David Williams (UCL)

Morning Session: Chair - Hannelore Saraph

10:00 am - "Close coupling approximation and R-matrix method" - Phil Burke (Daresbury)

10:30 am - "[Fe II] and other emission lines from interstellar jets" - David Flower (Durham University)

11:00 am - "The genesis of STRUCTURE and SUPERSTRUCTURE" - Harry Nussbaumer (ETH)

11:30 am - "QDT: is it the answer to everything?" - Gillian Peach (UCL)

Lunch 12:00 pm - 1:15 pm

Afternoon Session: Chair - John Tully

1:15 pm - "Relativistic effects in ionization processes of heavy ions" - David Moores (UCL)

1:45 pm - "Molecular Opacities" - Jonathan Tennyson (UCL)

2:15 pm - "Abundances from recombination lines and collisionally excited lines" - Mike Burlow (UCL)

Coffee 2:45 pm - 3:00 pm

Late Afternoon Session: Chair - Claudio Mendoza

3:00 pm - "The riddle of the nebular recombination lines" - Pete Storey (UCL)

3:30 pm - "X-ray Astronomy" - Anil Pradhan (Ohio State)

4:00 pm - "Photoionization experiments" - Francois Wuilleumier (U of Paris-Sud)

4:30 pm - "Helium, absorbing embarrassingly-many photons" - Ken Taylor (QUB)

5:00 pm -6:30 pm - **Reception (Physics & Astronomy, UCL)**

6:30 pm -8:00 pm - **Dinner (Physics & Astronomy, UCL)**

8:00 pm - **After Dinner Speeches (Moderator - Pete Storey)**

Messages - Sultana Nahar

Ian Percival

Helen Mason

Claudio Mendoza

John Tully

Claude Zeippen

Open to any comments

Acknowledgements (Sultana Nahar)

- By the Opacity and Iron Projects Team