

# Gas, dust and chemistry in space

January 4th

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- 9:00 REGISTRATION STARTS - IRCEP Board Room G015
- 10:30 COFFEE
- 11:00 MARTIN MCCOUSTRA (HERIOT-WATT UNIVERSITY) - INVITED  
Laboratory studies of desorption processes from model interstellar ices
- 11:45 HERMA CUPPEN (LEIDEN UNIVERSITY)  
Monte Carlo simulations of ices
- 12:15 GUIDO FUCHS (LEIDEN UNIVERSITY)  
Hydrogenation reactions of interstellar CO ice analogues
- 12:45 LUNCH  
(APC committee meeting) - IRCEP Board Room
- 14:15 KLAUS PONTOPPIDAN (CALTECH) - INVITED  
New results from ice mapping of water, CO and CO<sub>2</sub> in protostellar cores
- 15:00 STEFAN ANDERSSON (GOTEBORG UNIVERSITY)  
Molecular dynamics simulations of water ice photochemistry: implications for photodesorption efficiency and CO<sub>2</sub> formation
- 15:30 N J MASON (THE OPEN UNIVERSITY)  
VUV spectroscopy of astrochemical ices: A guide to their morphology
- 16:00 TEA
- 16:30 FEDOR GOUMANS (UCL)  
Astrochemistry on surfaces - a computational approach
- 17:00 TOM BELL (CALTECH)  
Herschel, HIFI and the HEXOS key program: The Orion and Sgr B2 star-forming regions
- 19:30 CONFERENCE DINNER - Scalini's Restaurant

- 9:00 LIV HORNEKAER (AARHUS UNIVERSITY) - INVITED  
H<sub>2</sub> formation on dust grains under PDR and post-shock conditions
- 9:45 FARAHJABEEN ISLAM (UCL)  
New laboratory results on molecular hydrogen formation on interstellar dust grains
- 10:15 HASSAN SABBAAH (UNIVERSITY OF RENNES)  
Towards an understanding of rapid neutral-neutral reactions at very low temperatures: Experimental measurements of rate constants for reactions of O(<sup>3</sup>P) with hydrocarbons
- 10:45 COFFEE
- 11:15 SEBASTIEN LE PICARD (UNIVERSITY OF RENNES)  
Experimental measurements of rate constants for reactions of the C<sub>4</sub>H radical at low temperatures: implications for the atmospheric chemistry of Titan and other planets
- 11:45 RUUD VISSER (LEIDEN UNIVERSITY)  
Modelling chemistry and emission of PAHs from protoplanetary disks
- 12:15 ERIC HERBST (THE OHIO STATE UNIVERSITY) - INVITED  
The role of surface chemistry in the formation of large interstellar molecules and the growth of grain mantles
- 13:00 LUNCH
- 14:30 HELEN ROBERTS (QUEENS UNIVERSITY BELFAST)  
The effects of grain-surface chemistry on molecular abundances and deuterium fractionation in cold gas
- 15:00 PAUL RUFFLE (THE UNIVERSITY OF MANCHESTER)  
Out at the edge - Metal-poor molecular gas in Galactic edge clouds
- 15:30 DAVID WILLIAMS (UCL)  
Chemistry in the wind/core interface of a young stellar object