

## **Presentations of YRs appointed by the network**

(Please note that YR presentations at "Reactive Network" meetings are listed separately in the minutes of the individual network meetings listed on the web page).

### **Southampton**

Lucia Zuin.

High Resolution Angle Resolved Electron Spectroscopy of Atomic Oxygen.

UK Synchrotron Network Meeting, Department of Chemistry, University of Southampton, UK, 12 April 2002.

F. Innocenti.

Synchrotron studies at Elettra, Trieste of Reactive Intermediates relevant to the Earth's Atmosphere.

Invited talk ETH, Zürich, 5 March 2004.

F. Innocenti.

Synchrotron studies at Elettra, Trieste of Reactive Intermediates relevant to the Earth's Atmosphere.

Southern Universities Spectroscopy Meeting, Oxford, UK, 25 March 2004.

P. Rodrigues.

Methods of preparation of Organic Azides, prior to study of their decomposition pathways. Department of Chemistry, University of Southampton, 14 January 2004.

P. Rodrigues.

Methods of preparation of Organic Azides, prior to study of their decomposition pathways. New University of Lisbon, 2 April 2004.

F. Innocenti

Spectroscopic studies of Radicals with Synchrotron Radiation at the Trieste Synchrotron Southern Universities Spectroscopy Group meeting, Oxford, UK, March 25<sup>th</sup> 2004.

F. Innocenti

Use of Synchrotron Radiation to study radicals by photoionization methods  
ETH Zürich, December 6<sup>th</sup>, 2003

P. Rodrigues

Novel Synthetic approaches followed to make organic azides  
Reactivities Network Meeting, Southampton, 6-9 April 2004.

### **Porton Down**

Giacomo Levita

Recent Spectroscopic Studies of the Decomposition of Azides in the Gas-Phase.  
Southern University Spectroscopy Meeting, Exeter, UK, 4 April 2003.

## Orsay

J. O'Reilly

The photodissociation of ethylene in the VUV.

UK Synchrotron Network Meeting, Department of Chemistry, University of Southampton, UK, 12 April 2002.

J. O'Reilly, S. Douin, N. Shafizadeh, S. Boyé, Ph. Bréchnignac, D. Gauyacq

A VUV study of fragments formed in the neutral photodissociation of ethylene.

LURE Users Colloquium, Orsay, June 2002.

J. O'Reilly, S. Douin, N. Shafizadeh, S. Boyé, Ph. Bréchnignac, D. Gauyacq

A VUV study of fragments formed in the neutral photodissociation of ethylene.

General Colloquium of the National Program on Physics and Chemistry of the Interstellar Medium, Bordeaux, June 2002.

## Garching

A.M. Smith-Gicklhorn, M. Lorenz, R. Ko<sup>3</sup>os, M. Frankowski, V.E. Bondybey

Poster entitled: Mass-selective matrix-isolation spectroscopy: FT-IR spectra of H(D)C<sub>3</sub>N<sup>+</sup>, C<sub>4</sub>N<sub>2</sub><sup>+</sup>, CNC<sup>+</sup>, C<sub>3</sub>N<sub>2</sub><sup>+</sup>, C<sub>5</sub>N<sub>3</sub><sup>+</sup>, C<sub>6</sub>N<sub>3</sub><sup>+</sup>, C<sub>6</sub>N<sub>4</sub><sup>+</sup>; C<sub>5</sub>N<sub>2</sub>'s identification.

Euroconference: Matrix 2001, The Chemistry and Physics of Matrix Isolated Species, Szklarska Poręba, Poland, 7-13 June 2001.

Petru Balaj

Reactions of hydrated aluminum ions with methanol and formic acid.

6th European workshop on Fourier Transform Ion Cyclotron Resonance Mass Spectrometry, Rolduc Monastery, Kerkrade, The Netherlands, 16-19 October 2001.

Iulia Balteanu

The effect of charge upon CO-adsorption by ionic metal cluster

Reactions of hydrated aluminum ions with methanol and formic acid.

6th European workshop on Fourier Transform Ion Cyclotron Resonance Mass Spectrometry, Rolduc Monastery, Kerkrade, The Netherlands, 16-19 October 2001.

Iulia Balteanu, O. Petru Balaj, Brigitte S. Fox, Martin K. Beyer, Vladimir E. Bondybey

Poster entitled: Effect of charge upon CO adsorption by coinage metal clusters.

DGMS\_2002: Deutsche Gesellschaft für Massenspektrometrie, Deutsches Krebsforschungszentrum Heidelberg, Germany, 3-6 March 2002.

O. Petru Balaj, Brigitte S. Fox, Iulia Balteanu, Martin K. Beyer, Vladimir E. Bondybey

Poster entitled: The Garching ICR cooled cell development.

DGMS\_2002: Deutsche Gesellschaft für Massenspektrometrie, Deutsches Krebsforschungszentrum Heidelberg, Germany, 3-6 March 2002.

Iulia Balteanu, O. Petru Balaj, Brigitte S. Fox, Martin K. Beyer und Vladimir E. Bondybey

Effect of charge upon CO adsorption by ionic coinage metal clusters.

Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Osnabrück, Germany, 4-8 March 2002.

O. Petru Balaj, Brigitte S. Fox, Iulia Balteanu, Martin K. Beyer und Vladimir E. Bondybey  
Black Body Radiation Induced Hydrogen Formation in Hydrated Vanadium Cations  
 $V^+(H_2O)_n$ .  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Osnabrück, Germany, 4-8  
March 2002.

I. Balteanu, O. P. Balaj, B. S. Fox, M. K. Beyer, V. E. Bondybey, Z. Bastl.  
Poster entitled: Very low rate constants of bimolecular CO adsorption on anionic gold  
clusters.  
International Conference on Cryocrystals and Quantum Crystals 2002, Freising, Germany,  
October 27-31, 2002.

O. P. Balaj, B. S. Fox, I. Balteanu, M. K. Beyer, V. E. Bondybey  
Poster entitled: The Garching ICR cooled cell development.  
International Conference on Cryocrystals and Quantum Crystals 2002, Freising, Germany,  
October 27-31, 2002.

M. Frankowski, M. Algarra, M. N. D. S. Cordeiro, A. M. Smith-Gicklhorn, M. K. Beyer, B. S.  
Fox, M. L. Costa, V. E. Bondybey.  
Poster entitled: Matrix-isolation FT-IR study of the azidoacetone and azidoacetonitrile.  
International Conference on Cryocrystals and Quantum Crystals 2002, Freising, Germany,  
October 27-31, 2002.

O.N. Grigorashchenko, V.V. Rudenkov, E.V. Savchenko, M. Frankowski, A.M. Smith-  
Gicklhorn, V.E. Bondybey  
Poster entitled: Activation spectroscopy of solid Ne.  
International Conference on Cryocrystals and Quantum Crystals 2002, Freising, Germany  
October 27-31, 2002.

I. Balteanu, O. P. Balaj, B. Fox, M. Beyer, V. Bondybey  
Cluster size and charge dependence reactions of the highly exothermic azidoacetonitrile on  
anionic and cationic rhodium clusters.  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, München, Germany, 22.-26.  
March 2004.

O. P. Balaj, I. Balteanu, B. Fox-Beyer, M. Beyer, V. E. Bondybey  
Addition of a Hydrogen Atom to Acetonitrile by Hydrated Electron Nanodroplets.  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, München, Germany, 22.-26.  
March 2004.

O. P. Balaj, I. Balteanu, B. S. Fox-Beyer, M. K. Beyer, V. E. Bondybey  
Poster entitled: The Development of a Temperature Controlled ICR-Infinity Cell.  
EFTMS 2004: Seventh European Workshop on FTMS, 28. März - 1. April 2004, Konstanz.

I. Balteanu, O. P. Balaj, B. S. Fox-Beyer, M. K. Beyer, V. E. Bondybey  
Use of Isotopically Enriched Material in Gas Phase Cluster Studies.  
EFTMS 2004: Seventh European Workshop on FTMS, 28. März - 1. April 2004, Konstanz.

## Amsterdam

E. Witkowicz, J. Mes, H. Linnartz, S. Stolte, C.A. de Lange, W. Ubachs.  
Poster entitled: Cavity Ringdown Spectroscopy of Molecular Ions.  
27th Fall Meeting of the NNV Section Atomic, Molecular and Optical Physics (AMO),  
Lunteren, Netherlands, 14-15 November 2002.

J. Philip, Th. Pielage, J.P. Sprengers, E. Reinhold, C.A. de Lange, W. Ubachs.  
Poster entitled: Highly accurate transition frequencies in the H<sub>2</sub> Lyman and Werner bands.  
27th Fall Meeting of the NNV Section Atomic, Molecular and Optical Physics (AMO),  
Lunteren, Netherlands, 14-15 November 2002.

E. Witkowicz, J. Mes, H. Linnartz, S. Stolte, C.A. de Lange, W. Ubachs.  
Poster entitled: Cavity Ringdown Spectroscopy of Molecular Ions.  
CW Studygroup Spectroscopy and Theory, Lunteren, Netherlands, 27-28 January 2003.

J. Philip  
High resolution molecular spectroscopy in several diatomic species: Li<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub>, and CO.  
Laboratoire d'Optique Appliquée, ILM group, Palaiseau, France, 10 December 2003.

Urs Hollenstein  
High precision measurements of the Lyman bands of H<sub>2</sub>  
EC research training network meeting 'Reactive Intermediates, Lyndhurst, UK, April 6-9,  
2004.

J. Philip  
Frequency-mixing scheme for the production of tunable narrowband XUV radiation at 91-95  
nm and spectroscopic applications.  
Laboratoire de Nanotechnologie et d'Instrumentation Optique, Université de Technologie de  
Troyes, Troyes (France), April 26, 2004.

## Crete

R.L. Toomes, P.T. R Rakitzis, T.N. Kitsopoulos.  
Measurement of state resolved differential cross sections for Cl+C<sub>2</sub>H<sub>6</sub>=HCl+C<sub>2</sub>H<sub>5</sub> and  
Cl+C<sub>4</sub>H<sub>10</sub>=HCl+C<sub>4</sub>H<sub>9</sub> using ion imaging.  
ICOMP IX , Elounda, Crete, Greece , October 18th-23<sup>rd</sup> 2002.

R.L. Toomes, P.T. R Rakitzis, T.N. Kitsopoulos.  
Spin polarized hydrogen atoms from molecular photodissociation.  
ICOMP IX , Elounda, Crete, Greece , October 18th-23<sup>rd</sup> 2002.

R.L. Toomes, T.N. Kitsopoulos.  
Rotationally Resolved Differential Cross Section Measurements for Reactions using Crossed  
Molecular Beams and Ion Imaging Detection.  
COMET XVIII, San Lorenzo de El Escorial, Spain, June 15th-20<sup>th</sup> 2003.

A. van den Brom  
H abstraction from organic molecules by Cl atoms

PICNIC meeting, Amsterdam, Netherlands, 31 May -1 June 2004.

A. van den Brom

H abstraction from organic molecules by Cl atoms

RGD24, International Symposium on Rarefied Gas Dynamics, Bari, Italy, 10-16 July 2004.

## **Lisbon**

Romeo I. Olariu

Atmospheric degradation of the phenols compounds: gas-phase products and aerosol formation from the OH radical reaction.

Mid Term Review Meeting, 3rd -7th September 2003, Orsay (France) - oral presentation.

Romeo I. Olariu

Study of the Thermal Decomposition of Benzyl Azide by Photoelectron Spectroscopy Seminar, Department of Physics, Faculty Science Technology, New University of Lisbon, March 2004, Portugal.

Romeo I. Olariu

Study of the physics and the chemistry underlying the decomposition of aromatic azides (Ar-N<sub>3</sub>), and identification of their reactive intermediates using: Ultraviolet Photoelectron Spectroscopy and Matrix Isolation - IR Spectroscopy and Electron Ionisation Mass Spectroscopy

Oral presentation, Meetings of Young researchers: 8th meeting of the RTN Network "REACTIVE INTERMEDIATES, 6-9 April 2004, Lyndhurst, UK.

Romeo I. Olariu

Differentiation of Methylbenzylazides by Mass Spectrometry.

Oral presentation, 1º Encontro Nacional de Física Atómica e Molecular, 13-14 April 2004, Lisboa, Portugal.

Romeo I. Olariu

Thermal decomposition of Aromatic Azides Monitored by UV-PES.

Oral presentation, 1º Encontro Nacional de Física Atómica e Molecular, 13-14 April 2004, Lisboa, Portugal.

Romeo I. Olariu

Differentiation of Methylbenzylazides Isomers by Mass Spectrometry

Poster-XIX Encontro Nacional Da Sociedade Portuguesa de Quimica, 15-17 April, 2004, Coimbra, Portugal.

