ISSI Workshop on Comparative Aeronomy
Scientific Program (draft 28 November 2006)

Monday 25 June 2007

Introductory session

9:30 – 9:45	Welcome address	**ISSI**
9:45 – 10:45	Introductory talk 1: What is aeronomy?	**Andrew Nagy**
10:45 – 11:45	Introductory talk 2: Lessons learned from an integrated terrestrial atmospheric model	**Ray Roble**
11:45 – 12:45	Introductory talk 3: Recent discoveries in planetary aeronomy	**Tom Cravens**
12:45 – 14:15	Lunch Break	
Session: Fundamental processes and modelling		
14:15 – 15:05	Solar energy and photoelectron energy deposition	**Jane Fox**
15:05 – 15:55	Particle energy deposition	**Marina Galand**
15:55 – 16:15	Coffee Break	
16:15 – 17:05	Cross-sections of relevance to aeronomic studies	**Juliet Pickering**
17:05 – 17:55	Reaction rates of relevance to aeronomic studies	**Dave Huestis**

Tuesday 26 June 2007

Session: Fundamental processes and modelling (cont'd)

9:00 – 9:50	Fluid neutral atmosphere models	**Steve Bougher**
9:50 – 10:40	Fluid ionospheric models	**Pierre-Louis Blelly**
10:40 – 11:00	Coffee Break	
11:00 – 11:50	MHD models	**Yingjuan Ma**
11:50 – 12:40	Kinetic/Hybrid models	**Esa Kallio**
12:40 – 14:15	Lunch Break	
Session: Current understanding of the aeronomy of solar system bodies		
14:15 – 15:05	Upper neutral atmospheres of Earth, Venus, and Mars	**Ingo Mueller-Wodarg**
15:05 – 15:55	Upper neutral atmospheres of the outer planets	**Darrell Strobel**
15:55 – 16:15	Coffee Break	
16:15 – 17:05	Upper neutral atmospheres of planetary satellites	**Hunter Waite**
17:05 – 17:55	Cometary atmospheres and their chemistry	**Jacques Crovisier**

Wednesday 27 June 2007

Session: Current understanding of the aeronomy of solar system bodies (cont'd)

9:00 – 9:50	Ionospheres of Venus and Mars	**Olivier Witasse**
9:50 – 10:40	Ionospheres of the outer planets and their satellites	**Arvidas Kliore**
10:40 – 11:00	Coffee Break	
11:00 – 11:50	Planetary airglow	**Tom Slanger**
11:50 – 12:40	Planetary aurora	**Renée Prangé**
12:40 – 14:15	Lunch Break	
14:15 – 19:00	Excursion	

Thursday 28 June 2007

Session: Vertical coupling to above and below

9:00 – 9:50	Solar wind interactions with Venus and Mars	**Tamara Breus**
9:50 – 10:40	Cometary ionospheres and the solar wind interactions with comets	**Kathrin Altwegg**
10:40 – 11:00	Coffee Break	
11:00 – 11:50	Magnetospheric interactions with Titan and other outer planet moons.	**Steve Ledvina**
11:50 – 12:40	Magnetosphere-ionosphere interactions at magnetized bodies	**Michel Blanc**
12:40 – 14:15	Lunch Break	
14:15 – 15:05	Dynamical coupling to the upper atmosphere	**Elisa Manzini**
15:05 – 15:55	Chemical coupling to and from the upper atmosphere	**Guy Brasseur**
15:55 – 16:15	Coffee Break	
Session: Escape and evolution		
17:05 – 17:55	Exospheric processes	**Michael Combi**
16:15 – 17:05	Ring/Torus aeronomy	**Wing Ip**
19:00	WS Dinner	

Friday 29 June 2007

Session: Escape and evolution (cont'd)		
9:00 – 9:50	Sputtering atmospheres and exospheres on planets and satellites	**Robert Johnson**
9:50 – 10:40	Atmospheric escape processes	**Helmut Lammer**
10:40 – 11:00	Coffee Break	
11:00 – 11:50	Influence of intrinsic magnetic fields on atmospheric evolution	**Janet Luhmann**
11:50 – 12:40	Current evidence for past climate at Venus and Mars/ (What do current isotopic ratios tell us about the past history of atmospheres)	**Jim Kasting**
12:40 – 14:15	Lunch Break	
Closing Session		
14:15 – 15:05	Aeronomy of extrasolar planets	**Roger Yelle**
15:05 – 15:55	Future of aeronomy	**Michael Mendillo**
15:55 – 16:15	Closing remarks	**Andrew Nagy**
16:15 – 16:30	Coffee Break	