

**ISSI Workshop on Comparative Aeronomy
Scientific Program (Final Draft 24 May 2007)**

Monday 25 June 2007

Introductory session

9:30 – 9:45	Welcome address	ISSI
9:45 – 10:25	Introductory talk 1: What is aeronomy?	Andrew Nagy
10:25 – 10:45	Coffee Break	
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	Arvydas Kliore
10:40 – 11:00	Coffee Break	
11:00 – 11:50	Planetary airglow	Tom Slanger
11:50 – 12:40	Planetary aurora	Steve Miller
12:40 – 14:15	Lunch Break	
14:15 – 21:00	Excursion and Workshop dinner in Murten	

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	Julianne Moses
15:55 – 16:15	Coffee Break	
<i>Session: Escape and evolution</i>		
16:15 – 17:05	Exospheric processes	Michael Combi
17:05 – 17:55	Ring/Torus aeronomy	Wing Ip

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	Eric Chassefiere
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	
<i>Closing Session</i>		
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 and end of the Workshop	