

2010 International Venus Workshop

Monday, 30 August 2010

TIME	PRESENTER	PRESENTATION TITLE	SEQ #
8:00 – 8:30		Registration / Material Pick-up	
8:30		Welcome Remarks and Announcements	
9:00		Jim Green via video from NASA HQ	
10:00 – 10:15		BREAK	
VENUS THERMOSPHERE		Session Chair - Anna Fedorova	
10:15 – 11:00	Sandor, Brad	Dynamics of the Venus Lower Thermosphere	1
11:00	Sornig, Manuela	Investigations of Dynamics and Temperatures in the Venusian Upper Atmosphere by Infrared Heterodyne Spectroscopy	2
11:20	Drossart, Pierre	The VIRTIS Experiment on ESA/Venus Express: Investigations from Surface to Thermosphere	3
11:40	Brecht, Amanda	A Comparison Between Venus Observations and the VTGCM to Provide Interpretation of the Varying Temperatures, Winds, and CO Density Distributions	4
12:00 – 1:25		LUNCH	
1:25 – 2:10	Krasnopolsky, Vladimir	Models of Atmospheric Composition and Chemistry on Venus	5
2:10	Bougher, Stephen	Dynamics, O ₂ Nightglow, and Ion-Neutral Chemistry of the Venus Upper Atmosphere: Interpretation of Venus Express Datasets Using the VTGCM	6
2:30	Soret, Lauriane	The Venus Oxygen Nightglow and Density Distributions	7
2:50 – 3:10		BREAK	
VENUS WEATHER & CLIMATE		Session Chair - David Grinspoon	
3:10	Markiewicz, Wojciech	1500 earth days around Venus, imaging with Venus Monitoring Camera on Venus Express	8
3:30	Limaye, Sanjay	VMC Observations of Atmospheric Circulation Results from Venus Express	
3:50	Taylor, Fredric	Volcanism and its role in Climate on Venus	10
4:10 – 4:40	Smit, Jan	Chicxulub Impact Atmospheric Disturbances: Lessons for Venus	11
6:00 – 9:00	Limaye	Lakeside informal get-together Inn Wisconsin Room at Memorial Union Terrace (and the open deck behind Tripp Commons) 800 Langdon Street, Madison 53706	

2010 International Venus Workshop Tuesday, 31 August 2010

TIME	PRESENTER	PRESENTATION TITLE	SEQ #
VENUS MISSIONS & TECHNOLOGY		Session Chair – Sue Smrekar	
8:00 AM	Svedhem, Håkan	Venus Express Mission	12
8:30	Imamura, Takeshi	Science Plan of Japanese Venus Orbiter, Akatsuki	13
9:00	Esposito, Larry	SAGE: A proposed New Frontiers Mission to Land on Venus	14
9:30	Wilson, Colin	The European Venus Explorer (EVE) Proposal: 2010 - Current Status	15
10:00 – 10:20		BREAK	
10:20	(Fedorova, Anna)	Russia's Venera-D Mission	(P15)
10:40	Balint, Tibor	Venus Aerial Mobility Concepts: In the Clouds & Near the Surface	16
11:00	Widemann, Thomas	Venus Science from Earth-Based Observations : Present and Future	17
11:20	Tsang, Constantine	Airborne Observations of Venus: Past, Present and Future	18
11:40	Singh, Upendra	Doppler Lidar for Wind Measurements on Venus	19
12:00 – 1:20		LUNCH	
ATMOSPHERIC CHEMISTRY & CLOUDS		Session Chair - Sushil Atreya	
1:20	Krasnopolsky, Vladimir	Spatially-Resolved High-Resolution Spectroscopy of Venus: Variations of CO ₂ , CO, HF, HCl, HDO, OCS, and SO ₂ at the Cloud Tops, OH and O ₂ Nightglow	20
1:40	Belyaev, Denis	SO ₂ Observations above Venus' Clouds by SPICAV/SOIR from the VEX Orbiter	21
2:00	Fedorova, Anna	Water Vapour in the Venusian Atmosphere with SPICAV IR/VEX	22
2:20	Parkinson, Chris	Photochemical Distribution of Venusian Sulfur and Halogen Species	23
2:40	Lorenz, Ralph	A Search for Lightning Signatures in Pioneer Venus Gamma Ray Data	24
3:00 – 3:20		BREAK	
3:20	McGouldrick, Kevin	Observing the Clouds of Venus from the Ultraviolet to the Infrared	25
3:40	Barstow, Joanna	Venus Cloud Properties from Venus Express VIRTIS Observations	26
4:00 – 4:45	Montmessin, Franck	Characterizing the Upper Cloud Layers of Venus	27
4:45 – 5:30		POSTER TALKS	
7:00 – 9:30		Public Program (Lecture Hall, Monona Terrace)	

2010 International Venus Workshop

Wednesday, 1 September 2010

TIME	PRESENTER	PRESENTATION TITLE	SEQ #
VENUS SURFACE		Session Chair – Kevin Baines	
8:00 AM	Bullock, Mark	Visualizing the Surface of Venus	28
8:20	Hansen, Vicki	Equilibrium Resurfacing of Venus is possible: Results from new Monte Carlo modeling and implications for Venus surface histories	29
8:40	Stoddard, Paul	Topographic Comparisons of Uplift Features on Venus and Earth: Implications for Venus Tectonics	30
9:00	Smrekar, Sue	Venus Hotspot Activity and Constraints on Convection	31
9:20	Stofan, Ellen	Themis Regio, Venus: Emissivity Signatures in VIRTIS-Venus Express Data	32
9:40	Helbert, Jörn	The near-infrared emissivity of the Venus surface: Observations by Venus Express and MESSENGER and a new program of high-temperature laboratory measurements	33
10:00 – 10:20		BREAK	
SFC - ATM COUPLING		Session Chair - Mark Bullock	
10:20	Grinspoon, David	Coupled Surface-Atmosphere Evolution of Venus	34
10:40	Treiman, Allan	The Calcite-Quartz-Wollastonite-CO ₂ "Buffer" of Venus' Atmosphere, with Implications for Other Planets	35
11:00	Noack, Lena	Coupling the Atmosphere with the Interior Dynamics: Implications for the Resurfacing of Venus	36
11:20	Höink, Tobias	Pace of Tectonic Modes on Venus and Earth and Atmospheric Argon	37
11:40	Taylor, Fred	Venus III Book	38
12:00 – 1:20		LUNCH	
CIRCULATION MODELS		Session Chair - Franck Montmessin	
1:20 – 2:05	Schubert, Gerald	Venus Rotation	39
2:05	Lebonnois, Sebastien	The Super-rotation Mechanism Based on Global Circulation Model Simulations	40
2:25	Takagi, Masahiro	Superrotation and Mean Meridional Circulation in the Venus Atmosphere	41
2:45 – 3:05		BREAK	
3:05 – 3:50	Covey, Curt	Angular Momentum in Terrestrial Planetary Atmospheres	42
3:50	Rozoff, Christopher	Dynamical Instabilities In The Polar Vortices of Venus	43
4:10	Yamamoto, Masaru	Development of Venus' GCM toward the AKATSUKI mission	44
4:30	Parish, Helen	Simulations of Multi-year Periodicities with a Venus Atmosphere GCM	45
7:00 PM		Dinner at the Community Terrace of the Convention Center	

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Posters – Displayed Monday through Wednesday (Hall of Ideas – J)

Session Chair – Curt Covey

	PRESENTING AUTHOR	TITLE	SEQ #
1	Adams, Jordan	VORTEX: A Mission Concept Study To Venus	46
2	Baek, Minjin	Hydrocarbons and Organics on Venus: Where Are They Now?	47
3	Bhatt, Bhuwan	Observing Venus from Hanle	48
4	Ghail, Richard	The Case for InSAR at Venus	49
5	Hoshino, Naoya	Effects of Atmospheric Waves on the O ₂ -1.27 um Nightglow Distribution in Venus	50
6	Johnson, Natasha	Venus Pressure Chamber: A Small Testing Facility for the Community	51
7	Molaverdikhani, Karan	Abundance and Vertical Distribution of the Unknown Absorber from analysis of VMC images	52
8	Ogohara, Kazunori	Automated Cloud Tracking System for the Akatsuki Venus Climate Orbiter Data	53
9	Orth, Christopher	Global Variations in the Lithospheric Thickness on Venus: Implications for the Evolution of Volcanism	54
10	Rodin, Alexander (presented by Fedorova)	CO ₂ Absorption in the Far Wings of Ro-vibrational Bands Under Venus Conditions	55
11	Rodin, Alexander (presented by Fedorova)	Non-hydrostatic General Circulation Model of Venus Atmosphere	56
12	Taylor, Fred	Venus III Book	57
13	Vats, Hari Om	The Study of IMF and Its Implications	58
14	Young, Eliot	Correlations Between VMC and 2.3 micron Ground-based Cloud Tracking Wind Field Estimates	59
15	Zasova, Ludmilla (presented by Fedorova)	Venera-D Mission of Russia	60

VEXAG Meeting on Thursday