

The 74th Fujihara Seminar / International Venus Conference 2019

Program No.	ho	End time	Name	Organization (abbreviated)	Title	Registration No	Remarks	
31-May-2019 Day1								
	(11:30-13:30)		<i>Lunch</i>					
Session00								
Opening								
	13:30	13:50	Hironori Iwase	The Fujihara Foundation of Science	Profile of The Fujihara Foundation of Science			
	13:50	14:00	Makoto Kobayashi	KEK	Opening Address			
Session 01 Geology: Observations and Lab Measurements								
(Masaki Ogawa, Martha Gilmore)								
01-1INVITE	14:00	14:20	Smrekar Suzanne	Jet Prop Lab/Caltech	VENUS INTERIOR AND SURFACE TODAY	IVC2019-0124		
01-2	14:20	14:35	Martha Gilmore	Wesleyan Univ.	CONTRASTS BETWEEN LOW EMISSIVITY TESSERA AND PLAINS MATERIALS ON VENUS MOUNTAINTOPS.	IVC2019-0119		
01-3INVITE	14:35	14:55	Helbert Jorn	DLR	The Spectroscopy of the surface of Venus - in the laboratory and from orbit	IVC2019-0122	by Smrekar Suzanne	
01-4	14:55	15:10	Erika Kohler	NASA Goddard Space Flight Center	Measuring spectral properties of candidate minerals: Applications to the Venus radar anomalies	IVC2019-0001		
01-5	15:10	15:25	Sara Taeko Port	University of Arkansas	Lead Minerals under Simulated Venus Conditions	IVC2019-0020		
01-6	15:25	15:40	Joseph G O'Rourke	ASU	Detectability and Scientific Implications of Crustal Remanent Magnetism on Venus	IVC2019-0098		
	(15:40-16:10)		<i>Coffee</i>					
Session 02 Geology and Evolution								
(David Grinspoon, Smrekar Suzanne)								
02-1	16:10	16:25	Abhinav Jindal	Cornell University	Unveiling the Interior of Venus: Using tectonic deformations along canals to constrain lithospheric structure & mantle convection	IVC2019-0083		
02-2INVITE	16:25	16:45	Masaki Ogawa	Univ. of Tokyo at Komaba	A two-stage evolution model of Venusian mantle and its implications for the Earth	IVC2019-0002		
02-4INVITE	16:45	17:05	Cedric Gillmann	ULB	The early and long term evolution of Venus and its atmosphere	IVC2019-0021		
02-5INVITE	17:05	17:25	Michael Way	NASA/GISS	Modeling Venus-like Worlds Through Time: The habitable zone, and the evolution of Venus' atmosphere.	IVC2019-0015		
02-6INVITE	17:25	17:45	David Grinspoon	Planetary Science Institute	The Evolution of Climate and a Possible Biosphere on Venus	IVC2019-0012		
			<i>Group Photo</i>					
	(19:00-21:00)		<i>Welcome Dinner</i>					
1-Jun-2019 Day2								
AM1: Session 03 Clouds and Chemistry (1)								
(Franklin Mills, Kevin McGouldrick)								
03-1	8:30	8:45	Satoshi Sasaki	Tokyo University of Technology	Microscope for Life Detection in Venus Clouds	IVC2019-0061		
03-2INVITE	8:45	9:05	Emmanuel Marcq	LATMOS / UVSQ	SPICAV-UV/VEx nadir observations: SO2, O3 and UV absorber	IVC2019-0062		
03-3	9:05	9:20	Michael Radke	Johns Hopkins University	Optical Properties of Venus Aerosol Analogues	IVC2019-0052		
03-4	9:20	9:35	Pushkar Kopparla	U Tokyo	Principal Components of UV Albedo Variability in Venus' Atmosphere as seen at 283 nm	IVC2019-0013		
03-5INVITE	9:35	9:55	Yeon Joo Lee	TUB	Long-term variations of Venus' 365-nm albedo observed by Venus Express, Akatsuki, MESSENGER, and Hubble Space Telescope	IVC2019-0038		
03-6	9:55	10:10	Takao Sato	HIU	Mapping of Venus' cloud top altitude from Akatsuki/IR2 dayside images	IVC2019-0109		
	(10:10-10:30)		<i>Coffee</i>					
AM2: Session 04 Atmospheric Dynamics (1)								
(Masahiro Takagi, Sebastien Lebonnois)								
04-1INVITE	10:30	10:50	Peter Read	University of Oxford	Venus in context : exploring atmospheric circulation regimes for slow (and fast) rotators	IVC2019-0027		
04-2	10:50	11:05	Masaru Yamamoto	Kyushu Univ.	Atmospheric simulations using Venus AORI general circulation models	IVC2019-0029		
04-3INVITE	11:05	11:25	Takeshi Imamura	The University of Tokyo	Localtime-dependent structures in the Venusian atmosphere revealed by Akatsuki radio occultation measurements	IVC2019-0073		
04-4	11:25	11:40	Masataka Imai	AIST	Continuous monitoring of planetary-scale waves in the Venus cloud top	IVC2019-0057		
04-5	11:40	11:55	Hiroki Kashimura	Kobe University	Planetary-scale streak structure reproduced in high-resolution simulations of the Venus atmosphere with a low-stability layer	IVC2019-0094		
04-6INVITE	11:55	12:15	Javier Peralta	ISAS (JAXA)	The complex features and dynamics of the nightside clouds of Venus as revealed by Akatsuki and Venus Express	IVC2019-0093		
	(12:30-14:00)		<i>Lunch</i>					
PM1: Session 05 Future Mission+A69s								
(Colin Wilson, Takehiko Satoh)								
05-2	14:00	14:15	Jonathan Grandier	NASA - JPL	Solar Spectrum and Intensity Analysis Under Venus Atmosphere Conditions for Photovoltaics Operation	IVC2019-0006		
05-3	14:15	14:30	Armin Kleinboehl	JPL	Venus Climate Sounder - A Limb Infrared Radiometer for the Middle Atmosphere of Venus	IVC2019-0060		
05-4INVITE	14:30	14:50	Lori S Glaze	NASA Goddard Space Flight Center	NASA Planetary Portfolio: Present and Future Plans	IVC2019-0131		
05-5	14:50	15:05	Nicolas Rambaux	IMCCE - Obs. Paris	Rotational motion of Venus and Envision determination	IVC2019-0063		
05-6	15:05	15:20	Colin F Wilson	Oxford University	Envision M5 Venus Orbiter: Status And Opportunities	IVC2019-0086		
05-7	15:20	15:35	Pascal Rosenblatt	Geoazur	Gravity and ephemeris experiment with EnVision	IVC2019-0115		
05-8	15:35	16:50	Ludmira Zasova	Space Research Institute (IKI RAS)	VENERA-D: Mission for long-term study of the atmosphere, surface, interior structure and solar wind interaction	IVC2019-0126	by Sanjay Shridhar Limaye	
05-9	15:50	16:05	Thomas F Bristow	NASA	CheMin-V: A Definitive Mineralogy Instrument for the Venera-D Mission	IVC2019-0117		
	(16:05-16:30)		<i>Coffee</i>					
PM2: Session 06 Posters (1)								
(Takeshi Horinouchi)								
	16:30	17:15	Poster Short Presentations (P01, P03, ..., odd number posters, one minute for each)					
	17:15	18:30	Core Time					

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2-Jun-2019 Day3								
AM1: Session 07 Clouds and Chemistry (2)								
(Emmanuel Marcq, Takao Sato)								
07-1	8:30	8:45	Kevin McGouldrick	CU/LASP	Cytherometeorology	IVC2019-0092		
07-2INVITE	8:45	9:05	George L. HASHIMOTO	Okayama Univ.	Climate control on Venus: Connections among clouds, UV absorber, surface chemical reaction, and atmospheric circulation	IVC2019-0085		
07-3	9:05	9:20	Takeshi Kuroda	Tohoku Univ.	Maintenances of Venusian Sulfuric Acid Clouds due to Chemistry and Dynamics Simulated by a General Circulation Model	IVC2019-0075		
07-4	9:20	9:35	Franklin Mills	ANU and SSI	Modeling the Distribution of Sulfur Species in the Atmosphere of Venus	IVC2019-0055		
07-5	9:35	9:50	Sanjay Shridhar Limaye	University of Wisconsin	Puzzling Cloud Cover of Venus	IVC2019-0077		
07-6	9:50	10:05	Eliot Young	SWRI	Spectral Properties of Unusual Nightside Cloud Features on Venus	IVC2019-0097		
	(10:05-10:30)			<i>Coffee</i>				
AM2: Session 08 Posters (2)								
(Makoto Taguchi)								
	10:30	11:15	Poster Short Presentations (P02, P04, ..., even number posters, one minute for each)					
	11:15	12:30	Core Time					
	(12:30-14:00)		<i>Lunch</i>					
	13:30		<i>Excursion</i>					
3-Jun-2019 Day4								
AM1: Session 09 Atmospheric Structure								
(Takeshi Imamura, Yeon Joo Lee)								
05-1	8:30	8:45	Tibor Kremic	NASA	Preparing for Venus Surface Exploration	IVC2019-0011		
09-1	8:45	9:00	Carver Jay Bierson	UCSC	A fully coupled photochemical-condensation model of the Venus atmosphere from the ground to 110 km	IVC2019-0026		
09-2	9:00	9:15	Ralph Lorenz	APL	The Dust Cycle on Venus	IVC2019-0031		
09-4	9:15	9:30	Christopher Dennis Parkinson	University of Michigan	Modeling of Observations of the OH Nightglow in the Venusian Mesosphere	IVC2019-0102		
09-5	9:30	9:45	Gourav Mahapatra	TU Delft	Studying the polarization in CO2 absorption bands of Venus atmosphere	IVC2019-0108		
09-6	9:45	10:00	Daria Evdokimova	IKI RAS, LATMOS	Variations of lower clouds and water vapor amount in deep Venus atmosphere based on night windows observations by the SPICAV-IR/Venus-Express	IVC2019-0112		
09-7	10:00	10:15	Mikhail Luginin	Space Research Institute (IKI), Moscow	Retrieval of upper haze aerosol properties from SPICAV-UV and -IR data	IVC2019-0045		
	(10:15-10:50)			<i>Coffee</i>				
AM2: Session 10 Atmospheric Dynamics (2)								
(Aymeric Spiga, Toru Kouyama)								
10-1	10:50	11:05	LEFEVRE Maxence	AOPP, Oxford	Organization of the convection in the Venusian cloud layer	IVC2019-0008		
10-2	11:05	11:20	Shinichiro Kawase	Rikkyo University	Comparison of horizontal distributions of temperature and UV absorbers at the Venus cloud-tops	IVC2019-0033		
10-4INVITE	11:20	11:40	Masahiro Takagi	KSU	Numerical modeling of the Venus atmosphere	IVC2019-0076		
10-5INVITE	11:40	12:00	Sebastien Lebonnois	LMD/IPSL, CNRS	Investigations below the clouds of Venus with the IPSL Venus GCM	IVC2019-0048		
10-3	12:00	12:15	Ehouarn Millour	LMD	Towards a (GCM-based) Venus Climate Database	IVC2019-0051		
	(12:30-14:00)			<i>Lunch</i>				
PM1: Session 11 Atmospheric Dynamics (3)								
(Helen Parish, Javier Peralta)								
11-1	14:00	14:15	Toru Kouyama	AIST	Detection of large stationary gravity waves over ten Venusian solar days seen in LIR images	IVC2019-0070		
11-2	14:15	14:30	Aymeric Spiga	Sorbonne Université / LMD	A new mesoscale model for Venus' atmosphere and its application to the bow-shaped structures discovered by Akatsuki	IVC2019-0014		
11-3INVITE	14:30	14:50	Takeshi Horinouchi	Hokkaido Univ	Venus atmosphere dynamics revealed by cloud tracking using images from Akatsuki	IVC2019-0079		
11-4	14:50	15:05	Ruben Goncalves	IA, Portugal	Akatsuki (cloud-tracking) and TNG/HARPS-N (Doppler velocimetry) coordinated wind measurements of cloud top Venus atmosphere.	IVC2019-0007		
11-5	15:05	15:20	Machado Pedro	I. Astrophysics and Space Sciences	Meridional and Zonal winds at Venus atmosphere from Cloud tracking, Doppler techniques and comparison with modelling	IVC2019-0009		
	(15:20-15:50)			<i>Coffee + Poster Removal</i>				
PM2: Session 12 Aeronomy and Plasma Environment								
(Masato Nakamura, Amanda Susanne Brecht)								
12-2INVITE	15:50	16:10	Amanda Susanne Brecht	NASA	Understanding the Impact of Waves on Venus' Upper Atmosphere through General Circulation Model Simulations	IVC2019-0066		
12-3	16:10	16:25	Martin Paetzold	RIU-Planetary Research	The Venus Ionosphere as seen by the Akatsuki Radio Science Experiment	IVC2019-0035		
12-4INVITE	16:25	16:45	Yoshifumi Futaana	Swedish Institute of Space Physics (IRF)	Upper atmosphere of Venus and impact from solar wind plasma: What we have learned from Venus Express	IVC2019-0005		
12-5	16:45	17:00	Dmitry Gorinov	Space Research Institute (IKI)	Circulation of Venusian atmosphere at 90-110 km based on apparent motions of the O2 1.27 um nightglow from VIRTIS-M (Venus Express) data	IVC2019-0040		
12-6	17:00	17:15	Stephen W Bougher	U of Michigan	An Investigation of the Solar Wind Influence on the Venus Upper Atmosphere Structure and Dynamics	IVC2019-0084		
12-7	17:15	17:30	Moa Persson	IRF Kiruna	H+/O+ escape rates in the Venusian magnetotail and their dependence on upstream conditions	IVC2019-0037		
12-8	17:30	17:45	Candace Leah Gray	Apache Point Observatory	Variability of the Venusian and Martian nightside ionosphere after solar storms	IVC2019-0047		
12-9	17:45	18:00	Kerstin S. Peter	RIU Cologne, Planetary Research	Small-scale disturbances in the lower dayside ionosphere of Venus	IVC2019-0023		
	(19:30-21:30)			<i>Banquet</i>				

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Program No.	ho	End time	Name	Organization (abbreviated)	Title	Registration No	Remarks
Poster							
Session 06 (Day2 PM2, odd numbers) and Session 08(Day3 AM2, even numbers)							
P01			Gilles BERGER	IRAP, CNRS-OMP, Toulouse	Experimental investigation of wet atmosphere-surface interaction at the conditions of Venus surface: an example for early terrestrial planets	IVC2019-0004	
P02			Martha Gilmore	Wesleyan Univ.	THIRTY DAYS ON VENUS: CHEMICAL AND ELECTRICAL CHANGES MINERALS EXPOSED TO THE GLENN EXTREME ENVIRONMENT RIG (GEER).	IVC2019-0116	
P03			Jeremy Brossier	Wesleyan University	Low radar emissivity signatures on coronae	IVC2019-0030	
P04			Cayman Thomas Unterborn	Arizona State University	Self-Consistent Reference Seismological Models for Determining Venus's Interior Composition	IVC2019-0003	cancelled
P05			Saman Karimi	Johns Hopkins University	Crater Relaxation on Venus: Implications for Geologic and Thermal History	IVC2019-0087	cancelled
P06			Sara Taeko Port	University of Arkansas	The Emissivity of Pyrrhotite/Basalt Mixtures at Venusian Temperatures	IVC2019-0067	
P07			Moa Persson	IRF Kiruna	Heavy ion flows in the upper ionosphere of the Venusian North Pole	IVC2019-0036	
P08			Masataka Imai	AIST	Cosmic rays detected by LAC on board Akatsuki	IVC2019-0056	
P09			Martin Paetzold	RIU-Planetary Research	Eight years of VEX-VeRa radio sounding of the Venus ionosphere	IVC2019-0041	
P10			Adhithyan Neduncheran	UPES, India	A review of photochemical reactions and electrical discharge in the atmosphere of Venus with special focus on lightning in the cloud region	IVC2019-0082	
P11			Stephen A Ledvina	Space Sciences Lab, UC Berkeley	Simulations of Ion Flow and Energy Transfer in the Venus Environment	IVC2019-0096	
P12			Chuanfei Dong	Princeton University	Role of a Weak Planetary Dipole Moment on Venusian Upper Atmosphere and Near Space Environment	IVC2019-0121	
P13			Valeriy Tenishev	University of Michigan	Toward Development of Coupled Kinetic-Fluid Model of Venus Thermosphere-Exosphere System Interacting with the Ambient Solar Wind	IVC2019-0065	
P14			Yukihiro Takahashi	Hokkaido Univ.	Search for lightning discharge in Venus with Akatsuki/LAC and Pirka telescope	IVC2019-0088	
P15			Christopher Dennis Parkinson	University of Michigan	The Impact of Venus Middle Atmosphere Aerosol Heating upon SO ₂ and CO Density Distributions through GCM Model Simulations	IVC2019-0111	
P16			Franklin Mills	ANU and SSI	Simulations of Vertical Profiles of Sulfur Oxides in Venus' Mesosphere	IVC2019-0054	
P17			Seiko Takagi	Hokkaido Univ.	The global variation of Venus cloud investigated from IR1 onboard AKATSUKI	IVC2019-0072	
P18			Christopher Dennis Parkinson	University of Michigan	Photochemical Control of the Distribution of Venusian Water and and Sulphuric Acid Aerosols in the Clouds and Upper Haze of Venus	IVC2019-0105	
P19			Kensuke Nakajima	Kyushu Univ.	Development of a Venus' cloud formation scheme for a convection resolving model	IVC2019-0078	
P20			Kandis-Lea Jessup	Southwest Research Institute	Venus Cloud Top Chemistry, Convective Activity and Topography: A Perspective from HST	IVC2019-0104	by Emmanuel Marcq
P21			Hiroki Andou	Kyoto Sangyo University	Venusian cloud physics investigated by a general circulation model	IVC2019-0016	
P22			naomoto iwagami	none	Cloud morphology and wind measurements by the Akatsuki 1-micrometer camera	IVC2019-0010	
P23			Sebastien Lebonnois	LMD/IPSL, CNRS	Composition and clouds, some insights and questions from the coupled IPSL Venus GCM	IVC2019-0050	
P24			Takehiko Satoh	ISAS/JAXA	Enormous cloud cover as seen by Akatsuki/IR2 on the night-side disk of Venus	IVC2019-0068	
P25			Sebastien Lebonnois	LMD/IPSL, CNRS	Interactions between the topography and the atmosphere on Venus	IVC2019-0101	
P26			Takeshi Horinouchi	Hokkaido Univ	Understanding the formation of super-rotation under zonally symmetric thermal forcing	IVC2019-0081	
P27			Kosuke Takami	PAT	Temperature and wind variations in Venusian mesosphere and lower thermosphere by mid-infrared heterodyne spectrometer in 2018	IVC2019-0091	cancelled
P28			Norihiko Sugimoto	Keio Univ.	The Venus AFES LETKF Data Assimilation System (VALEDAS)	IVC2019-0018	
P29			Asako Hosono	Toshimagaoka Women High School	The study on the reproducibility of cold collar assuming radio occultation measurement by small satellites	IVC2019-0043	
P30			Thomas Widemann	Paris Observatory	Clouds Top Wind Measurements and Thermal Properties near Beta Regio (25N, 283E)	IVC2019-0089	
P31			Kosuke Takami	PAT	Temperature and wind variations in Venusian mesosphere and lower thermosphere by mid-infrared heterodyne spectrometer in 2018	IVC2019-0091	
P32			Yusuke Nara	Univ. Tokyo	Structures of planetary-scale waves at Venusian cloud top revealed by an improved cloud-tracking method tolerant to streaky features	IVC2019-0095	
P33			Hideo Sagawa	Kyoto Sangyo Univ.	Doppler-wind observations of Venus mesosphere: Comparison with new GCM experiments	IVC2019-0114	
P34			Ryota Mori	The University of Tokyo	Gravity wave packets detected in radio occultation temperature profiles of the Venus atmosphere	IVC2019-0058	
P35			Neil Tamas Lewis	University of Oxford	What controls the strength of super-rotation in terrestrial atmospheres?	IVC2019-0132	
P36			Marina Patsaeva	IKI RAS	Solar related variations of the cloud top circulation above Aphrodite Terra from VMC/Venus Express wind fields. Comparison with Akatsuki (first results)	IVC2019-0059	
P37			Kunio M Sayanagi	Hampton University	The relationship between wind shear and eddy momentum forcing in the Venusian atmospheric super-rotation	IVC2019-0100	
P38			Toru Kouyama	AIST	Venusian yearly-scale variation of super rotation seen in Akatsuki observations	IVC2019-0064	
P39			Takeshi Horinouchi	Hokkaido Univ	A novel cloud tracking method and results from Akatsuki	IVC2019-0080	
P40			Helen F. Parish	UCLA	Investigating the Influence of Wave Variations on Venus' Cloud-level Atmosphere using a Middle Atmosphere Model	IVC2019-0019	
P41			Tetsuya Fukuhara	Rikkyo University, Tokyo	Local-time variation of the zonal wave number spectra derived from the Venus cloud-top Temperature observed by Akatsuki LIR	IVC2019-0017	
P42			Silvia A. Tellmann	RIU Cologne, Germany	Eight years of VEX-VeRa radio sounding of the Venus atmosphere	IVC2019-0039	
P43			Ryan Matthew McCabe	Hampton University	Tracking the Venus Y-Feature During Venus Express and Ground-based Observing	IVC2019-0071	
P44			Janusz Oschlisniok	RIU Cologne, GER	Sulfuric acid vapor in the atmosphere of Venus as observed by the Venus Express Radio Science Experiment VeRa	IVC2019-0025	
P45			Tatiana M Bocanegra Bahamon	NASA JPL	Radio-holographic methods for inversion of radio occultation experiments of past Venus' spacecraft	IVC2019-0090	
P46			Choon Wei Vun	SOKENDAI	Akatsuki's IR2 Nightside Photometry Restoration by Deconvolution in 2.26um and 1.735um filters	IVC2019-0118	
P47			Grzegorz Slowik	University of Zielona Gora	Measuring the properties of acidophilic bacteria under Venus cloud conditions	IVC2019-0042	
P48			Sebastien Lebonnois	LMD/IPSL, CNRS	An experiment to investigate Venus's deep atmosphere	IVC2019-0049	
P49			Alexander B. Akins	Georgia Tech	Ka Band Opacity of Sulfuric Acid Vapor at Venus: Initial Results	IVC2019-0046	
P50			Kiichi Fukuya	The University of Tokyo	Stationary wavy features and Banded structures at Venusian cloud top extracted by averaging multiple LIR images	IVC2019-0123	
P51			Jeffrey Balcerski	Ohio Aerospace Institute (OAI)	LEAVES - A swarm probe mission concept to Venus' clouds	IVC2019-0113	cancelled
P52			Adhithyan Neduncheran	UPES, India	Remote sensing studies of our sister planet: Exploring Venus using planetary glider and CubeSat constellation	IVC2019-0032	
P53			Silvia A. Tellmann	RIU Cologne, Germany	Radio Sounding of the Venusian Atmosphere and Ionosphere with EnVision	IVC2019-0107	
P54			Yoshiyuki O. Takahashi	Kobe University	Zonal mean structure of Venus atmosphere observed in a Venus general circulation model, DCPAM, with explicit radiative transfer calculation	IVC2019-0022	by Yoshi-Yuki Hayashi
P55			Kosenkova Anastasia	Lavochkin Association	DEVELOPMENT OF THE VENERA-D SPACECRAFT DESIGN	IVC2019-0044	
P56			Eliot Young	SWRI	Observing Venus with NASA's Terrestrial Balloon Program	IVC2019-0099	
P57			Makoto Taguchi	Rikkyo University	Spectroscopic observation of the Venus atmosphere by a circumpolar stratospheric telescope FUJIN	IVC2019-0053	
P58			Ralph Lorenz	APL	A Lightweight Imaging/Altimeter Radar for Venus Exploration	IVC2019-0120	
P59			Smrekar Suzanne	Jet Prop Lab/Caltech	VERITAS (VENUS EMISSIVITY, RADIO SCIENCE, INSAR, TOPOGRAPHY AND SPECTROSCOPY): A PROPOSED DISCOVERY MISSION.	IVC2019-0125	
P60			Masahiro Akiba	Rikkyo graduate school	3-D structure of a thermal tide in the Venus atmosphere	IVC2019-0127	
P61			James Alfred Cutts	Jet Propulsion Laboratory	Exploration of Venus with Aerial Platforms	IVC2019-0128	
P62			James Alfred Cutts	Jet Propulsion Laboratory	Prospects for the Investigation of Venus using Infrasound	IVC2019-0129	S. Krishnamoorthy