

Program of the International Colloquium and Workshop "Ganymede Lander: scientific goals and experiments"

(Version final, updated 4 March 2013)

5 March 2013

Opening Session			11.00-11.20
GLCW_01	Lev Zelenyi	Opening Remarks, Cooperation in the Jupiter System Exploration	11.00-11.20
Session 1. Missions to Jupiter system			11.20-13.25
Chairperson: Oleg Korablev			
GLCW_1_01	Nadya Evdokimova	The Beauty of Ganymede	11.20-11.45
GLCW_1_02	Maxim Martynov	Ganymede Lander mission overview	11.45-12.10
GLCW_1_03	Dmitrij Titov	JUICE: a European mission to Jupiter and its icy moons	12.10-12.35
GLCW_1_04	David Senske	Science from the Europa Clipper Mission Concept: Exploring the Habitability of Europa	12.35-13.00
GLCW_1_05	Paul Hartogh	The Submillimetre Wave Instrument (SWI) on JUICE	13.00-13.25
withdrawn	Michel Blanc	Cooperation and synergies between the Ganymede Lander and JUICE: a brief study of possible scenarios	
Lunch			13.25-15.00
Session 2. Ganymede: origin, internal structure and geophysics			15.00-17.20
Chairperson: TBD			
GLCW_2_01	Anna Dunaeva	A comparison of internal structure of Ganymede and Titan	15.00-15.20
GLCW_2_02	Hauke Hussmann	Geophysical and dynamical constraints on Ganymede's evolution and present state	15.20-15.40
GLCW_2_03	Frank Sohl	Tides on Ganymede	15.40-16.00
GLCW_2_04	Tina Rückriemen	Key characteristics of the Fe-snow regime in Ganymede's core	16.00-16.20
Coffee-break			16.20-16.40
GLCW_2_05	Pascal Rosenblatt	A Geodesy Experiment using Direct-to-Earth radio-link between the Ganymede Lander and Earth tracking stations: Constraints on Ganymede interior structure.	16.40-17.00
GLCW_2_06	Marco Gregnanin	The Determination Of Ganymede's Rotational State and Tides from Radio Tracking of a Lander	17.00-17.20
Social event			17.30-18.30

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Session 3. Ganymede: surface, geology and Landing site			10.00-13.00
Chairpersons: Alexander Basilevsky, Robert Pappalardo			
GLCW_3_01	Robert Pappalardo	Ganymede's Tectonics	10.00-10.20
GLCW_3_02	Gerald Patterson	A Global Geologic Map of Ganymede	10.20-10.40
GLCW_3_03	Michail Ivanov	Ganymede vs. Callisto: Which to pick up?	10.40-11.00
GLCW_3_04	Valérie Ciarletti	Sounding the Ganymede's crust with a GPR	11.00-11.20
GLCW_3_05	Dmitry Zhukov	New Ganymede control point networks, image mosaics, and maps	11.20-11.40
Coffee-break			11.40-12.00
GLCW_3_06	Genrikh Avanesov	Imaging instruments for Ganymede Mission	12.00-12.20
GLCW_3_07	Jürgen Oberst	Distribution Patterns of Bright and Dark Surface Materials on Ganymede and Correlations with Topography and Slopes	12.20-12.40
Posters of Session 3			
GLCW_3_08	Dmitry Zhukov	Studies of illumination and Earth visibility for the surfaces of Ganymede and Callisto	
Lunch			13.00-14.00
Session 4. Astrobiology			14.00-15.00
Chairperson: Alexander Zakharov			
GLCW_4_01	Olga Prieto-Ballesteros	How to examine the habitability of deep oceans of Ice Satellites. An approach from the study of the cryomagmatism	14.00-14.15
GLCW_4_02	Sergey Bulat	Elusive microbial life at the uppermost water layer in subglacial Lake Vostok, East Antarctica	14.15-14.30
GLCW_4_03	Mikhail Gerasimov	Characterization of Exogenic Organic Matter on the Ganymede Surface	14.30-14.45
GLCW_4_04	Leonid Ksanfomality	Diffraction camera seeking for microorganisms	14.45-15.00
Coffee-break			15.00-15.30
Session 5. Surface experiments			15.30-17.45
Chairpersons: Andrew Coates, Geraint Jones			
GLCW_5_01	Geraint Jones	Penetrators as Ganymede subsurface probes	15.30-15.45
GLCW_5_02	Andrew Coates	Particle measurements at and on Ganymede	15.45-16.00
GLCW_5_03	Shingo Kameda	In situ potassium-argon dating using laser induced breakdown spectroscopy in the vacuum ultraviolet range	16.00-16.15
GLCW_5_04	Sergey Pavlov	Identification of salts and minerals in icy matrices at planetary environmental conditions by LIBS atomic emission spectroscopy	16.15-16.30
GLCW_5_05	Hans-Ulrich Auster	Magnetic Field Measurement Onboard a Ganymede Lander - Experiment Proposal Based on Experiences with Lander Magnetometers for the Missions Mars 96/98, Rosetta and Hayabusa-2	16.30-16.45
GLCW_5_06	Anita Przyklenk	Electrical Sounding on Ganymede	16.45-17.00
GLCW_5_07	Michel Hamelin	A permittivity probe for the Ganymede Lander	17.00-17.15
GLCW_5_08	Leonid Ksanfomality	Thermozond – an instrument for analysis of the regolith without its delivery to analyzer	17.15-17.30
GLCW_5_09	Ozgur Karatekin	Ganymede surface temperature measurements using a thermal flux detector	17.30-17.45
Discussion			17.45-18.30
Social event			18.30-21.30

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Session 6. Ganymede environment			10.00-13.00
Chairperson: Anatoly Petrukovich			
GLCW_6_01	Valery Shematovich	Chemistry of the atmosphere-icy surface interface at Ganymede	10.00-10.20
GLCW_6_02	Geraint Jones	Surface processes on icy satellites: Remote and in situ observations	10.20-10.40
GLCW_6_03	Stas Barabash	Energetic Neutral Atom Imaging of the Ganymede - Jovian Magnetosphere Interaction	10.40-11.00
GLCW_6_04	Oleg Vaisberg	Plasma measurements at and on Ganymede	11.00-11.20
GLCW_6_05	Benjamin Grison	Wave emissions at ion scales	11.20-11.40
Coffee-break			11.40-12.00
GLCW_6_06	Igor Alexeev	A subalfvenic plasma flow past the magnetized obstacle: Ganymede magnetosphere	12.00-12.20
GLCW_6_07	Peter Wurz	Investigation of the atmospheres of Europa, Ganymede, and Callisto with PEP/JUICE	12.20-12.40
GLCW_6_08	Mikhail Podzolko	Radiation Conditions of a Mission to Jupiter's Moon Ganymede	12.40-13.00
Lunch			13.00-14.00
Session 7. Technical aspects of the Ganymede Lander mission			14.00-17.00
Chairperson: Leonid Gurvits			
GLCW_7_01	Ilya Lomakin	Ganymede Lander & Orbiter Design	14.00-14.20
GLCW_7_02	Alexey Grushevskii	A method of orbits designing using gravity assist maneuvers to the landing on the Jovian's Moons	14.20-14.40
GLCW_7_03	Alexey Golikov	Mathematical Model of the Spacecraft Landing on Ganymede's Surface	14.40-15.00
GLCW_7_04	Maksim Shirobokov	Advanced method of virtual trajectories for the preliminary trajectory design of gravity-assist missions	15.00-15.20
Coffee-break			15.20-15.40
GLCW_7_05	Oleg Korablev	Preliminary model payload of Ganymede Lander	15.40-16.00
GLCW_7_06	Leonid Gurvits	Planetary Radio Interferometry and Doppler Experiment (PRIDE): a multidisciplinary enhancement for a Jovian mission	16.00-16.20
GLCW_7_07	Ondrej Santolik	Whistler mode waves in the Jovian System: consequences for the proposed onboard processing within the RPWI experiment onboard JUICE	16.20-16.40
GLCW_7_08	Ivana Kolmasova	Implementation of planetary protection requirements for the RPWI experiment onboard the JUICE spacecraft	16.40-17.00
Posters of Session 7			
GLCW_7_09	Jürgen Oberst	Orbital Evolution and Observing Conditions For Satellites in the Gravity Fields of Ganymede and Callisto	
Wrap-up and discussion			17.00-18.00