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## ISSI-BJ Forum on Lunar and Planetary Seismology

**11 January, 2017**

### **Introduction**

**Chair: M. Blanc**

08:45-09:00	Welcome and Introduction to ISSI-BJ	M. Blanc
09:00-09:25	Overview of the Apollo seismic experiment	Y. Nakamura ( <a href="#">by skype</a> )
09:25-09:50	The Chinese Lunar Exploration program	C. Wang
09:50-10:15	Goals and Challenges of Planetary seismology	P. Lognonné

### **Session I**

#### **The Apollo seismic experiments: Lunar structure**

**Chair: W-h Ip**

10:15-10:40	Regolith, Crust and upper mantle: from Apollo to GRAIL	M. Wieczorek
10:40-10:55	Regolith thickness at the Apollo landing sites: A revisit based on morphology of small impact craters	W. Fa
10:55-11:10	Crust and mantle seismic and geophysical inversions	A. Khan
11:10-11:35	<i>Coffee break</i>	
11:35-11:40	Recent re-analyses of the Apollo lunar seismic data: Insight into the Moon's deep interior	R. Weber
11:40-11:55	On Going Research Activities and Current Limitations	P. Lin
11:55-12:10	How to better know the deep Moon by future instrumentation?	R. Garcia
12:10-12:25	Distribution of KREEP in lunar nearside based on lunar seismic tomography	P. Zhu
12:30-14:00	<i>Lunch</i>	

### **Session II**

#### **Lunar sources and Post-Apollo science goals**

**Chair: Y. Wang**

14:00-14:25	What is missing to fully understand the Moon's formation and internal structure	Clive Neal ( <a href="#">by skype</a> )
14:25-14:50	Perspectives of joint impact-seismic monitoring synergistic studies	W-h Ip
14:50-15:05	Test of Determining the Focal Mechanism of Deep Moonquakes	D. Sun
15:05-15:20	Dynamics of DMQ and impacts	T. Kawamura
15:20-15:35	Lunar megaregolith studies from joint seismic and gravity data	N. Schmerr
15:35-16:05	<i>Coffee break and group photo</i>	

16:05-16:30	Detection of gravitational waves on the Moon and fundamental physics	J. Harms (by skype)
16:30-17:30	Free Discussion	
18:00	<i>Dinner hosted by ISSI-BJ</i>	

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### Session III: Planetary seismology

Chair: M. Wieczorek

09:00-09:25	Giant Planet seismology	P. Gaulmes (by Skype)
09:25-09:50	Seismology on Mars and other terrestrial bodies	B. Banerdt
09:50-10:05	Seismology on comets	M. Knapmeyer
10:05-10:20	Crust and Subsurface seismology on InSight	B. Knapmeyer-Endrun
10:20-10:50	Free Discussion	
10:50-11:15	<i>Coffee break</i>	

### Session IV: New steps and future projects

Chair: P. Lognonné

11:15-11:40	Seismic instrumentation on the Moon	S. de Raucourt
11:40-11:55	Challenge of Seismic modeling on the Moon	Y. Wang
11:55-12:10	Accelerometers development in China	S. Qu
12:10 -12:25	Rotational planetary seismology	H. Igel
12:30-14:00	<i>Lunch</i>	
14:00-14:20	Future projects in Japan	H. Shiraishi
14:20-14:40	Future projects in Russia	
14:40-15:00	Future projects in the USA	R. Weber
15:00-15:40	Discussion on future projects in Europe and China	
15:40-16:10	<i>Coffee Break</i>	

### Session V: Conclusions

16:10–17:10	Free Discussion and plans for future collaborations	Moderator: M. Blanc
	- Summary of the Forum	
	- Outline, structure, publication of the Forum report	
	- Action items	
17:10	<i>End of the forum</i>	