

国際測地学協会及び国際地震学・地球内部物理学協会合同学術総会

Joint Scientific Assembly of the International Association of Geodesy (IAG) and the International Association of Seismology and Physics of the Earth's Interior (IASPEI)

開催期間 2017年7月30日～2017年8月4日

開催場所 神戸国際会議場、神戸商工会議所（兵庫県神戸市）

開催テーマ Exploring our restless earth（変動するわが地球の探求）

#### スケジュール

2017年7月30日(日) 市民講演会、アイスブレーカー

2017年7月31日(月) 開会式、シンポジウム

2017年8月01日(火) シンポジウム

2017年8月02日(水) シンポジウム、IAG ディナー

2017年8月03日(木) シンポジウム、IASPEI ディナー

2017年8月04日(金) シンポジウム、閉会式

登録者数 約1000名（74か国・地域）

発表論文数 1192件

助成団体 日本国際観光コンベンション協会、公益財団法人中内コンベンション振興財団助成金、日本万国博覧会記念基金助成金、公益財団法人東京海上各務記念財団

主催：公益社団法人日本地震学会、日本測地学会、日本学術会議

共催：東京大学地震研究所 神戸大学都市安全研究センター・理学研究科

協賛：京都大学防災研究所、気象庁、国土地理院、（国研）防災科学技術研究所、（国研）海洋研究開発機構、（国研）産業技術総合研究所 地質調査総合センター、（国研）国立極地研究所、（公社）日本地球惑星科学連合、人と防災未来センター、（公財）地震予知総合研究振興会

後援：海上保安庁海洋情報部、（国研）建築研究所、兵庫県、神戸市

代表者：山岡 耕春 国際測地学協会及び地震学・地球内部物理学協会合同総会組織委員会委員長

事務局：〒113-0032 東京都文京区弥生 1-1-1 TEL 03-5841-5808

東京大学 地震研究所 国際地震・火山研究推進室 国際測地学協会及び国際地震学・地球内部物理学協会合同学術総会事務局

一部運営委託会社：〒105-8335 東京都港区芝 3-23-1 セレスティン芝三井ビルディング 株式会社 JTB コミュニケーションデザイン TEL：03-5657-0660

		Kobe International Conference Center										The KOBE Chamber of Commerce and Industry				
		Main Hall	Intl Conf Room (301)	401	402	403	501	502	504+505	503	Shimin-Hiroba Square	Shinsho-Hall	Event Hall			
Sun July 30	PM						Registration									
	8:30-10:00	S07-1 Strong ground motions and earthquake hazard and risk	J06-1 The spectrum of fault-zone deformation processes (from slow slip to earthquake)	J03-1 Deformation of the lithosphere: Integrating seismology and geodesy through modelling	S19-1 Planetary seismology	S02-1 Anthropogenic seismicity	S01-1 Open session	G02-1 Static gravity field	G04-1 Earth rotation and geodynamics							
	10:30-12:00	S07-2 Strong ground motions and earthquake hazard and risk	J06-2 The spectrum of fault-zone deformation processes (from slow slip to earthquake)	J03-2 Deformation of the lithosphere: Integrating seismology and geodesy through modelling	S19-2 Planetary seismology	S02-2 Anthropogenic seismicity	S01-2 Open session	G02-2 Static gravity field	G04-2 Earth rotation and geodynamics							
Mon July 31	12:00-13:30	Lunch / Business Meetings														
	13:30-16:00	Joint Opening Ceremony														
	16:00-16:30	Coffee Break														
	16:30-18:00	IASPEI Opening Plenary	IAG Opening Plenary													
	18:00-20:00	Business Meetings														
Tue Aug 1	8:30-10:00	S07-3 Strong ground motions and earthquake hazard and risk	J06-3 The spectrum of fault-zone deformation processes (from slow slip to earthquake)	J03-3 Deformation of the lithosphere: Integrating seismology and geodesy through modelling	S19-3 Planetary seismology	S02-3 Anthropogenic seismicity	S01-3 Open session	G02-3 Static gravity field	G04-3 Earth rotation and geodynamics	S09-1 Open session: Earthquake generation process - physics, modeling and monitoring for forecast						
	10:30-12:00	S07-4 Strong ground motions and earthquake hazard and risk	J06-4 The spectrum of fault-zone deformation processes (from slow slip to earthquake)	S22 Lithosphere structure and dynamics: Plate boundary deformation at lithospheric scale	S19-4 Planetary seismology	S02-4 Anthropogenic seismicity	S01-4 Open session	G02-4 Static gravity field	G04-4 Earth rotation and geodynamics	S09-2 Open session: Earthquake generation process - physics, modeling and monitoring for forecast						
	12:00-13:30	Lunch / Business Meetings														
	13:30-15:00	S07-5 Strong ground motions and earthquake hazard and risk	J09-1 Geodesy and seismology general contributions	S03-1 Imaging of heterogeneities in the Earth with seismic scattered waves and ambient noise	S20 Earth and planetary space and remote sensing seismology; i.e., seismology without seismometers	S02-5 Anthropogenic seismicity	J05-1 Crustal dynamics: Multidisciplinary approach to seismogenesis	G02-5 Static gravity field	G06-1 Geodetic remote sensing	S09-3 Open session: Earthquake generation process - physics, modeling and monitoring for forecast						
	15:00-15:30	Coffee Break														
	15:30-16:30	Poster Session														
Wed Aug 2	16:30-18:00	S07-6 Strong ground motions and earthquake hazard and risk	J09-2 Geodesy and seismology general contributions	S03-2 Imaging of heterogeneities in the Earth with seismic scattered waves and ambient noise		S02-6 Anthropogenic seismicity	J05-2 Crustal dynamics: Multidisciplinary approach to seismogenesis	G02-6 Static gravity field	G06-2 Geodetic remote sensing	S10 Development, testing and application of earthquake forecasting models						
	18:00-20:00	Business Meetings														
	8:30-10:00	S07-7 Strong ground motions and earthquake hazard and risk	J02-1 Recent large and destructive earthquakes	S03-3 Imaging of heterogeneities in the Earth with seismic scattered waves and ambient noise	S14-1 Upper mantle and transition zone dynamics and structure	J01-1 Monitoring of the cryosphere	J05-3 Crustal dynamics: Multidisciplinary approach to seismogenesis	G01-1 Reference frames	G06-3 Geodetic remote sensing	S11-1 Geo & space technologies to study pre-earthquake processes: Observation, modeling, forecasting						
	10:30-12:00	S07-8 Strong ground motions and earthquake hazard and risk	J02-2 Recent large and destructive earthquakes	S03-4 Imaging of heterogeneities in the Earth with seismic scattered waves and ambient noise	S14-2 Upper mantle and transition zone dynamics and structure	J01-2 Monitoring of the cryosphere	J05-4 Crustal dynamics: Multidisciplinary approach to seismogenesis	G01-2 Reference frames	G06-4 Geodetic remote sensing	S11-2 Geo & space technologies to study pre-earthquake processes: Observation, modeling, forecasting						
	12:00-13:30	Lunch / Business Meetings														
	13:30-15:00	S07-9 Strong ground motions and earthquake hazard and risk	J02-3 Recent large and destructive earthquakes	S03-5 Imaging of heterogeneities in the Earth with seismic scattered waves and ambient noise	S15 Mid-mantle structure	J01-3 Monitoring of the cryosphere	J05-5 Crustal dynamics: Multidisciplinary approach to seismogenesis	G01-3 Reference frames	G06-5 Geodetic remote sensing	S12-1 An interdisciplinary approach towards earthquake prediction studies						
Thu Aug 3	15:00-15:30	Coffee Break														
	15:30-16:30	Poster Session														
	16:30-18:00		J02-4 Recent large and destructive earthquakes	S06 Advancement in methodologies for CTBT monitoring	S16 Large low shear velocity provinces and deep mantle structure		J08-1 Imaging and interpreting lithospheric structures using seismic and geodetic approaches	G01-4 Reference frames	G03-1 Time variable gravity field	S12-2 An interdisciplinary approach towards earthquake prediction studies						
	18:00-20:00	Business Meetings														
	8:30-10:00	S13-1 Earthquake source mechanics	J04-1 Geohazard early warning systems	J07-1 Tracking the sea floor in motion	S17 Outer core structure and dynamics	S04-1 Historical and macroseismic studies of earthquakes	J08-2 Imaging and interpreting lithospheric structures using seismic and geodetic approaches	G01-5 Reference frames	G03-2 Time variable gravity field	S26-1 Exploring connections between heat flow and tectonics						
Fri Aug 4	10:30-12:00	S13-2 Earthquake source mechanics	J04-2 Geohazard early warning systems	J07-2 Tracking the sea floor in motion	S18 Inner core structure	S04-2 Historical and macroseismic studies of earthquakes	J08-3 Imaging and interpreting lithospheric structures using seismic and geodetic approaches	G01-6 Reference frames	G03-3 Time variable gravity field	S26-2 Exploring connections between heat flow and tectonics						
	12:00-13:30	Lunch / Business Meetings														
	13:30-15:00	S13-3 Earthquake source mechanics	J04-3 Geohazard early warning systems	J07-3 Tracking the sea floor in motion	S23-1 Geoscience and society	S04-3 Historical and macroseismic studies of earthquakes	S21-1 Lithospheric structure	G07-1 Global Geodetic Observing System (GGOS) and Earth monitoring services	G03-4 Time variable gravity field	S25 Development and application of geothermal databases						
	15:00-15:30	Coffee Break														
	15:30-16:30	Poster Session														
	16:30-18:00	S13-4 Earthquake source mechanics	J04-4 Geohazard early warning systems	J09-3 Geodesy and seismology general contributions	S23-2 Geoscience and society	S04-4 Historical and macroseismic studies of earthquakes	S21-2 Lithospheric structure	G07-2 Global Geodetic Observing System (GGOS) and Earth monitoring services	G03-5 Time variable gravity field	S24-1 Methods and instruments of experimental geothermics - Application and recent evolution						
Fri Aug 4	18:00-20:00	Business Meetings														
	8:30-10:00	S13-5 Earthquake source mechanics	J04-5 Geohazard early warning systems	J09-4 Geodesy and seismology general contributions	S08-1 Paleoseismology and paleotsunami studies: their potential and limitation	S05-1 Preservation and usage of analog seismogram archives	S21-3 Lithospheric structure	G07-3 Global Geodetic Observing System (GGOS) and Earth monitoring services	G05-1 Multi-signal positioning: Theory and applications	S24-2 Methods and instruments of experimental geothermics - Application and recent evolution						
	10:30-12:00	S13-6 Earthquake source mechanics	J04-6 Geohazard early warning systems	J09-5 Geodesy and seismology general contributions	S08-2 Paleoseismology and paleotsunami studies: their potential and limitation	S05-2 Preservation and usage of analog seismogram archives	S21-4 Lithospheric structure	G07-4 Global Geodetic Observing System (GGOS) and Earth monitoring services	G05-2 Multi-signal positioning: Theory and applications	S27 Geothermal energy: Ground source heat pump, hydrothermal system, and hot dry rocks						
	12:00-13:30	Lunch / Business Meetings														
	13:30-15:00	S13-7 Earthquake source mechanics	J04-7 Geohazard early warning systems	J09-6 Geodesy and seismology general contributions		S05-3 Preservation and usage of analog seismogram archives	S21-5 Lithospheric structure	G07-5 Global Geodetic Observing System (GGOS) and Earth monitoring services	G05-3 Multi-signal positioning: Theory and applications							
	15:00-16:00	Poster Session														
	16:00-17:30	Joint and IASPEI Closing Plenary	IAG Closing Plenary													

Poster I  
(G01, G02, G04, G06, J01, J03, J05, J06, S03)

Poster II  
(S01, S02, S06, S07, S09, S10, S11, S12, S19, S20, S22)

Poster III  
(G03, G05, G07, J02, J04, J08, J09)

Poster IV  
(S04, S05, S08, S13, S14, S15, S16, S17, S18, S21, S23, S24, S25, S26, S27)

### IAG-IASPEI 2017 Business Meeting Schedule

* Closed Meeting		As of 16/05/2017								
Venue	Room	Timing	29/07/2017 SAT	30/07/2017 SUN	31/07/2017 MON	01/08/2017 TUE	02/08/2017 WED	03/08/2017 THU	04/08/2017 FRI	
Kobe International Conference Center	Reception office	8 am – 6 pm	ISC Exec. *							
	Main Hall	1:30 – 4 pm			Joint Opening					
		4–5:30 pm								IASPEI Closing Plenary
		4:30–6 pm			IASPEI Opening Plenary					
	Int. Conference Room	5:30–6 pm								Joint Closing
		12 – 6 pm		Public Lecture						
		4 – 5:30 pm								IAG Closing Plenary
		4:30–6 pm			IAG Opening Plenary					
	401	8:30–10 am								
		10–12 am								
		6 – 8 pm			IAG Council *	IAG Services	IASPEI Commission Source			
	402	8:30 am – 6 pm								
		12 – 1:30 pm				IAG Comission 4		IAG Comission 1		
		6–8 pm			IASPEI Commission Edu&Outr	IASPEI Commission CoSOI	IASPEI Commission Tect&Struct	IAG Executive *		
	403	12 – 1:30 pm				IAG Comission 3	IAG ICC Theory	IASPEI Exec + SPC	FDSN 2.General Meeting	
		12–3 pm		ISC Gov. Council*						
		3–6 pm		FDSN 1.General Meeting						
		6–8 pm			IASPEI Commission SHR	IASPEI Commission Earth Str Geodyn	IASPEI Commission Modeling & Pred			
	404	12 – 1:30 pm				IASPEI ASC	IASPEI AfSC	IASPEI LACSC	IASPEI ESC	
		6 – 8pm			IAG GGOS Focus Area 1	IAG Comission 2				
	503	12 – 1:30 pm			FDSN WG1	FDSN WG2	FDSN WG3	FDSN WG5		
		12 – 1:00pm								FDSN WG4
		2 – 4 pm								FDSN 2.General Meeting
	303	08:30–10 am		IASPEI Bureau *	IASPEI OFFICE (SG)					
		10–12 am		IASPEI EC *	IASPEI OFFICE (SG)					
	304			IAG Executive *	IAG OFFICE (SG)					
	305				cloak					
	306				cloak					
	307				cloak					
	Atrium	6 – 9 pm		ICE BREAKER						
Shushin-kan (LEGENDARY FUKUJU)	Restaurant	8–11 pm						IAG DINNER		
Kobe Animal Kingdom	Restaurant	8–11 pm						IASPEI DINNER		
Venue	Room	Timing	29/07/2017 SAT	30/07/2017 SUN	31/07/2017 MON	01/08/2017 TUE	02/08/2017 WED	03/08/2017 THU	04/08/2017 FRI	

## **IAG-IASPEI Joint Opening**

**Monday July 31 13 : 30 – 16 : 00**

MC LOC chair

### **13:30-14:00 Greetings (5 min x 6)**

- 1 . Message from Prime minister
2. Mayor of Kobe City
3. SCJ vice president (Dr. Hanaki)
4. SSJ president (Dr. Yamaoka)
5. IUGG president (Dr. Sideris)

### **14:00-16:00 Plenary Lectures 120 min**

1. Kosuke Heki "Geodesy in Japan : Legends and highlights" 40 min
  2. Barbara Romanowicz "Imaging the earth's deep interior using seismic waves in the age of high-performance computing" 40 min
- Manabu Hashimoto "Evolution of Earthquake Science with Space Geodesy" 40 min

Coffee break

### **16:30-18:00**

**IAG/IASPEI Opening plenaries 16:30-**

## **IAG-IASPEI Joint Closing**

**Friday August 4 16:00 -**

1. Summary of Joint sessions
2. Thanks to staff
3. Farewell

Followed by IAG/IASPEI closing plenary

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## Scientific Field Trip

You can observe the scars of disaster caused by the Kobe earthquake and nature of earthquakes.  
Hokudan Earthquake Memorial Park is located southern edge of the Nojima fault ruptured during the 1995 Kobe earthquake.  
The surface fault is preserved in museum.

### Half-day (morning) field trips to the Nojima Fault

#### Itinerary

<b>8:15 Assembly Time</b>	Conference venue
<b>8:30 Dep.</b>	--- Awaji SA --- Ezaki Park --- Hokudan Earthquake Memorial Park ---
<b>13:30 Arr.</b>	Tour will be disbanded at the Conference venue



※Arrival time will be changed due to traffic conditions.

※Places to visit, Maximum attendee of the tour, etc are subject to change with or without notice.

**Date** OP1: August 1 8:30-13:00 (approx. 4.5 hours)  
OP2: August 3 8:30-13:00 (approx. 4.5 hours)



**Participants** Condition: Minimum Participants required 40 persons

**Price** JPY 4,000 / person



[Hokudan Earthquake Memorial Park \(In Japanese only\)](#)

#### Application

Participants wishing to reserve optional tours should apply online no later than [July 3, 2017](#).

We will not accept your application in case of fully booked or if the tour is canceled.

#### Payment

Participants wishing to reserve tours should apply online no later than [July 3, 2017](#).

Application should be accompanied by a remittance covering total tour fare due to JTBMGMT.

No reservation will be confirmed in the absence of this payment. Personal checks are not accepted. All payment must be in Japanese yen. If the remittance covers more than one person, please inform us the name of each participant.

Payment should be in the form of:

- One of the following credit cards
  - 1. VISA 2. MasterCard 3. Diners Club 4. AMEX 5. JCB
- A bank transfer to JTB Global Marketing & Travel Inc. (Message: iag-iaspei2017)  
Account at The Bank of Tokyo-Mitsubishi UFJ, Ltd. Shin-Marunouchi Branch (swift code: BOTKJPJT)  
1-4-1 Marunouchi, Chiyoda-ku, Tokyo 100-0005 Japan (Account number: 4760343)

### Cancellation

In the event of cancellation, the following cancellation fees will be deducted before any refund is made.

<b>10 – 8 days before the departure day of tours</b>	20% of tour fare
<b>7 - 2 days before</b>	30% of tour fare
<b>1 day before</b>	40% of tour fare
<b>Prior to starting time on the departure day</b>	50% of tour fare
<b>After departure or failure to show without notice</b>	100% of tour fare

[Click here to apply](#)

### Official Travel Agent

JTB Global Marketing & Travel Inc. Convention Center (CD 102782-010)

2-3-14 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-8604, Japan

Fax: +81-3-5495-0685 Tel: +81-3-5796-5445

E-mail: [iag-iaspei2017@gmt.jtb.jp](mailto:iag-iaspei2017@gmt.jtb.jp)

OFFICE HOURS: 10:00-17:30 Except Saturdays, Sundays and National Holidays

Tours are operated by JTB Global Marketing & Travel Commissioner of Japan Tourism

Agency Registered Travel Agency No. 1723

2-3-14 Higashishinagawa, Shinagawa-ku, Tokyo 140-8604

Kotaro Kai, Certified Travel Service Supervisor

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## Social Program

### Ice Breaker Reception

Date/Time 6:00pm - 8:00pm, July 30 (Sun.), 2017

Venue Shimin-Hiroba Square (next to conference venue)

\* All participants ([Assembly registration](#) is required.) are invited.



### IAG Dinner

Date/Time 7:00pm - 9:00pm, August 2 (Wed.), 2017

Venue KOBE SHU-SHIN-KAN  
1-8-17, Mikagetsukamachi, Higashinadaku, Kobe, Hyogo

\* Registration closed (sold out).



### IASPEI Dinner

Date/Time 7:00pm - 10:00pm, August 3 (Thu.), 2017

Venue Kobe animal kingdom  
7-1-9, Minami cho, minatojima, Kobe, Hyogo

\* [Pre-registration](#) is required.



国際測地学協会及び国際地震学・地球内部物理学協会合同学術総会 2017  
市民公開講座「変動する地球を追いかけて 一測地学、地震学の最前線一」

日時：2017年7月30日（日）14:00～16:00（開場 13:30）

場所：神戸国際会議場 国際会議室（301）

（神戸市中央区港島中町6-9-1、ポートライナー「市民広場駅」下車すぐ）

主催：日本学術会議、日本地震学会、日本測地学会

事前申し込み不要 入場無料 先着240名

問い合わせ先：吉岡（TEL: 078-803-6598; E-mail: yoshioka@port.kobe-u.ac.jp）

講演1 重力変化と地球温暖化

日本測地学会 会長（北海道大学大学院理学研究院 教授） 日置 幸介 氏

講演2 東北地方太平洋沖地震と熊本地震

日本地震学会 会長（名古屋大学大学院環境学研究科 教授） 山岡 耕春 氏

助成団体：

日本学術会議

日本万国博覧会記念基金

公益財団法人 中内力コンベンション振興財団

MEETinKOBE

公益財団法人東京海上各務記念

（参考）

開場 13:30 開会 14:00

14:00 開会あいさつ（司会）

14:05 日置会長講演（40分+10分）

14:55 山岡会長講演（40分+10分）

15:45 全体討論