

France-Japan Symposium

Advanced Materials for Energy Future

**Towards reliable, durable and safe materials
for energy production and storage**

Date:

June 30th 2014 - 9h15-17h05

July 1st 2014 - 9h15-17h45

Conference Venue:

Science Council of Japan in Tokyo



Ambassade de France au Japon



公開シンポジウム

フランス・日本シンポジウム

エネルギーの将来のための先端材料科学

エネルギー生産・貯蔵のための高信頼性・耐久性・安全性の材料に向けて

- ◆ 主催： 日本学術会議
- ◆ 共催： 在日フランス大使館
フランス科学アカデミー
- ◆ 日時： 平成26年6月30日（月）～7月1日（火）
- ◆ 会場： 日本学術会議講堂（東京都港区六本木7-22-34）

（開催趣旨）

エネルギー政策転換に向けた国際的な動向下、フランスと日本は最適なエネルギーミックスを模索している。従来型エネルギーと代替エネルギーを適切に組み合わせたエネルギーミックスにより、環境保全を確保しながらエネルギー需要を満たす必要がある。安全、かつ高い競争力と持続性を有する最適なエネルギーミックスを実現するには、（1）熱エネルギー利用技術の改良、及び（2）信頼性の高い再生可能エネルギーの開発・集配・貯蔵、という2つの方向に向けた研究およびイノベーションの努力が必要となる。

こうしたエネルギー技術には、極端な条件下（高圧、高温、及び腐食性環境）でも使用可能かつ長寿命の高効率材料とともに、高信頼性・安全性の構造物や施設が要求される。研究開発活動の命運は、環境に配慮するという制約にも適応でき、持続可能な技術面でのソリューション（解決策）につながる新規材料の設計にかかっている。

今回の第一回フランスー日本シンポジウムでは、（1）エネルギー政策転換という状況下におけるフランスと日本のエネルギー政策、（2）従来型エネルギーおよび再生可能エネルギー技術の将来にとって要ともなる先端材料、という2のテーマに関する議論を行うべく、エネルギー及びエネルギー関連材料の専門家を招へいする。

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France-Japan Symposium on Advanced Materials for Energy Future
Towards reliable, durable and safe materials for energy production and storage:

Monday, June 30, 2014

講演者等の詳細含み、一部確認中のため今後変更が入る可能性があります。

Tentative Time Table as of 25 Jun, 2014

9:00 - 9:15 Registration				
Opening				
9:15	9:25	Takashi Onishi	President, Science Council of Japan; President, Toyohashi University of Technology	welcome address
9:25	9:35	Jacques Maleval	Councilor for Science and Technology, Embassy of France,	welcome address
9:35	9:45	Yasuhiro Iye	Vice President, Science Council of Japan; Professor, The University of Tokyo	introduction
Global Issues and energy transition (Chair: Yasuhiro Iye)				
9:45	10:10	Koichi Yamada	Deputy Director-General, Center for Low Carbon Society Strategy (LCS), Japan Science and Technology Agency (JST); Executive Advisor, Office of the President, The University of Tokyo	Importance of the renewable energy R&D for global warming mitigation – Cost and CO2 emissions of future power generation –
10:10	10:35	Yves Brechet	High Commissioner for Atomic Energy; Member of Sciences Academy; Professor of material sciences at Grenoble Institute of Technology	Analyzing Energy Mix: Consequences on Material's Issues
10:35	11:00	Jan Van Der Lee	Director, EDF/Materials Ageing Institute	Industrial Challenges for Secure and Affordable Electricity Supply in a Changing World
Break				
Advanced materials for nuclear energy (Chair:)				
11:20	11:45	Clara Desgranges	Head of Laboratory of Modeling, Thermodynamics, Thermochemistry, CEA (French Alternative Energies and Atomic Energy Commission)	Advanced Materials for the Future of Nuclear Energy and Development of Modeling Tools for the Study of Accidental Conditions
11:45	12:10	Michel Vilasi	Professor at the University of Lorraine, Head of the CP25 Department of the IJL(Chimie et Physique des Solides et des Surfaces)	A physico-chemical approach of the vitrification process of nuclear wastes
12:10	12:35	Tetsuo Shoji	Council Member (Section III), Science Council of Japan; Professor, Frontier Research Initiative (FRI), New Industry Creation Hatchery Center (NICHE),Tohoku University	Proactive Materials Aging Issues and a Role of Hydrogen for Safe and Reliable Operation of Nuclear Power Plants
12:35	13:00	Nicolas Devictor	Deputy program manager "Generation IV Reactors", CEA (ASTRID programme)	ASTRID program and related R&D needs on materials
Lunch Break				
Advanced materials for renewable energies (Chair:)				
14:10	14:35	Ronan Stephan	Chief Innovation Officer, Alstom	Systematic challenges for smart and sustainable territories
14:35	15:00	Kazunari Sasaki	Distinguished Professor & Director, Next-Generation Fuel Cell Research Center, International Research Center for Hydrogen Energy, International Institute for Carbon-Neutral Energy Research (I2CNER), Faculty of Engineering, Kyushu University	Materials Research for Next-Generation Fuel Cells: Current status and future perspectives
15:00	15:25	Patrick Ginet	Materials Science Group Manager, Air Liquide Laboratories, Tsukuba, Japan	Materials Challenges for Hydrogen Energy Technologies
Break				
15:50	16:15	Kenichiro Saitoh	Senior Fellow, JX Nippon Oil & Energy Corporation Central technical research laboratory	Toward FCV/H2 Infrastructure Deployment
16:15	16:40	Jean-François Guillemoles	Director NEXTPV, Ecole nationale supérieure de chimie de Paris	Solar Energy in France: Current situation and future developments
16:40	17:05	Hiroshi Segawa	Professor, Research Center for Advanced Science and Technology, The University of Tokyo	Organic and Hybrid Photovoltaics, Electrochemistry, Photochemistry
Tuesday, July 1, 2014				
National Energy Policy and STI (Science, Technology and Innovation) Strategy				
(Chair: Nobuhide Kasagi: Professor Emeritus, The University of Tokyo, Deputy Director-General, Center for Research and Development Strategy, Japan Science and Technology Agency)				
9:15	9:45	Takao Kashiwagi	Distinguished Professor, Tokyo Institute of Technology, Center Director, Advanced Energy Systems for Sustainability(AES)	
9:45	10:15	Aït Aïssa		
10:15	10:30	Discussion		
Break				
Advanced materials for power storage and distribution (Chair:)				
10:50	11:15	Noritaka Mizuno	Professor, Department of Applied Chemistry, School of Engineering, The University of Tokyo	Innovative Basic Research Toward Creation of High-performance Battery
11:15	11:40	Patrice Simon	Inter-university Material Research and Engineering Centre (CIRIMAT), University of Toulouse III	Materials for batteries and supercapacitors: Recent advances at the French level
11:40	12:05	Sataro Yamaguchi	Professor, Chubu University; Director, Center of Applied Superconductivity and Sustainable Energy Research	Superconducting DC power transmission line as the most efficient energy transports
12:05	12:30	Nouredine Hadjsaid	Deputy Director, Grenoble Electrical Engineering Laboratory/G2ELAB	Smartgrids: stakes, research needs and opportunities for advanced energy materials
Lunch Break				
Advanced materials for thermal energy - waste to energy (Chair:)				
13:45	14:10	Michio Kondo	Deputy Director-General, Fukushima Renewable Energy Institute, NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY (AIST)	Silicon or not Silicon ? - Materials for Solar Photovoltaics To Come.
14:10	14:35	Jean-Michel Brossard	"Material for technologies" Research Group Manager, Veolia Environnement Research and Innovation (VERI SNC)	Energy from Waste and bio-solid fuel : key role of material in asset management
14:35	15:00	Minoru Suzuki	Senior Researcher , General Manager, Residential Energy System Development Dept, Osaka Gas Co., Ltd.	Development and Commercialization start-up of Solid Oxide Fuel Cell residential CHP system
15:00	15:25	Yuzou Kawahara	General Manager, DHF Bi-met DIVISION, DAI-ICHI HIGH FREQUENCY CO., LTD.	Innovations on Material and Coating Technologies for High Efficiency Waste/Biomass-to-Energy Plants
Break				
Advanced materials for thermal energy - waste to energy (Chair:)				
15:45	16:25	Jean-Yves Guedou	Conseiller scientifique matériaux, SNECMA Groupe Safran	Turbo-engines: From Aeronautical Industry to Power Generation
16:25	16:50	Kazuo Tomida	Manager, Development Design Group, Fuel Cell Business Department, Mitsubishi Hitachi Power Systems, Ltd.	Recent Progress of SOFC-GT Combined Cycle System with Segmented-in-series Tubular Type Cell Stack at MHPS
16:50	17:15	Hideyuki Murakami	Group Leader, Surface Kinetics Group, High Temperature Materials Unit, National Institute for Materials Science (NIMS)	materials for extreme conditions
Closing				
17:15	17:45	Yves Brechet Yasuhiro Iye		

<お問い合わせ>

開催場所や一般的なお問い合わせ：

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(ACCESS)

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