

# **Dialogue for Global Innovation**

**Proposed by  
Dr. Yutaka Kuwahara,  
Representative Director, ams Japan  
and  
President & CEO, GVIN Ltd  
(formerly Hitachi, Ltd.)  
November 2016**

# Concept

- **Identify key issues commonly shared by Japan, Europe and America, and propose the innovative solution through the synergetic cross-cultural interactions**
- **Accelerate Global Innovation through the cooperation between Japan, Europe and America**

# Shared Theme

- (1) Trends of innovation study in each country**
- (2) How innovation research adopted in the nation's policy**
- (3) Research trend of economic and social impact of Fundamental Research**
- (4) Best practice of maximizing the economic and social impact of Fundamental Research**

# Team - Japan

## Main Members

- Prof. Ryo Hirasawa, Prof. Emeritus, Univ. of Tokyo, and President of Mirai-Kougaku-Kenkyujo
- Prof. Hiroyuki Yoshikawa, former President, Univ. of Tokyo
- Chiaki Tanaka, former SVP, Toray
- (Dr. Reinosuke Hara, former Chairman and President, SEIKO)
- Mr. Tateo Arimoto, Professor, GRIPS
- Yoshiaki Tsukamoto, Director, Japan Bio Technology Association
- Dr. Kiyoshi Kurokawa, Professor, GRIPS
- Prof. Ikujiro Nonaka, Professor Emeritus, Hitotsubashi University
- Prof. Takeshi Kamiya, Professor Emeritus, Tokyo University
- Dr. Masaaki Hirooka, CEO, Technoeconomics Institute
- Prof. Koichi Sumikura, GRIPS :Co-Leader and Coordinator of Dialogue Project
- Prof. Yuuko Harayama
- Dr. Naoya Yoda, President & CEO, Innovation Management & Research, former President, Toray America
- Dr. Tsugio Makimoto, Chairman: SSIS, Director
- Shigeo Numazawa, Director of Strategy Office, Denso
- Dr. Kunio Torii, CEO, Torii Nutrient-Stasis Institute, Honorable Executive Director, Ajinomoto
- Hiroshi Asahina, Senior Executive Managing Director Toshiba Medical
- (Naoki Tomino, Executive Fellow, Nikon)
- Dr. Eiichi Maruyama, Special Advisor to RIKEN (formerly Hitachi)
- Dr. Hideaki Koizumi, Fellow, Hitachi Ltd
- Dr. Eiji Takeda, Advisor, Hitachi Management and Planning Research Laboratory
- Isao Omiya, General Manager, NTT Comcheo
- Mr. Ikuo Yamashita, Nikkan Kougyo Shinbunsha and Shuichiro Kobayashi, Maruzen
- Edward Elger Publishing Company
- Dr. Yutaka Kuwahara, Representative Director, ams Japan and President & CEO, GVIN Ltd,  
: Leader and Coordinator of Dialogue Project

## Advisor

- Prof. Akiyoshi Wada, Prof. Emer. Univ of Tokyo

# Dialogue for Global Innovation

～基礎研究の経済的・社会的インパクトに関する検討～

日時：2011年12月1日（木）

主催：政策研究大学院大学 ライフサイエンス政策研究プロジェクト

助成：社団法人東京倶楽部

後援（予定）：研究・技術計画学会、日本知財学会、産学連携学会、日本MOT学会、日本開発工学会、日本工学アカデミー、知的財産マネジメント研究会（Smips） ほか  
参加費無料

※英国からのスピーカーの発表は日本語に逐次通訳されます。

趣旨：政策研究大学院大学ライフサイエンス政策研究プロジェクトでは、「基礎研究の経済的・社会的インパクトの測定と、それを最大化するための方策」を検討テーマの一つとして、活動を行ってきた。

今回は、ライフサイエンス関連分野、ならびに比較対象となる他の分野に関して、国内外のスピーカーから事例をご提示いただき、基礎研究のインパクトに関する考察を深める。

また、日英のイノベーション研究者の交流を促進し、今後両国間の協力関係を一層深めるための契機としたい。

スケジュール 敬称略

司会 隅藏康一（政策研究大学院大学 准教授）

10:00－10:05 開会の辞 白石隆（政策研究大学院大学 学長）

10:05－10:45 基調講演 イノベーションのための政策 黒川清（政策研究大学院大学教授）

10:45－11:25 基調講演 理化学研究所における産学連携とイノベーション  
丸山瑛一（政策研究大学院大学 客員教授）

11:25－12:20 基調講演 イノベーション研究の潮流

Professor Sir Michael Gregory, Institute for Manufacturing, University of Cambridge.

12:20－13:30 Lunch

13:30－15:40 様々な分野におけるイノベーション事例と基礎研究の関与（20分×7名）

司会 桑原裕（株式会社GVIN代表取締役）

情報通信

James Collier, Founder and Former CTO, Cambridge Silicon Radio.

自動車

沼澤成男（株式会社デンソー 技術開発センター新事業開発室長兼技術企画部主幹）

エレクトロニクス・半導体

牧本次生（エルピーダメモリ株式会社 取締役）

食品分野

鳥居邦夫（味の素株式会社 ライフサイエンス研究所 上席理事）

脳科学

小泉英明（株式会社日立製作所 役員待遇フェロー）

政策研究大学院大学ライフサイエンス政策研究プロジェクトの調査結果齋藤裕美  
（千葉大学法経学部准教授）

15:40－16:00 Break

16:00－17:20 パネルディスカッション

モデレータ：隅藏康一（政策研究大学院大学 准教授）

パネリスト：

上記講演者

有本建男（科学技術振興機構 社会技術研究開発センター センター長）

塚本芳昭（バイオインダストリー協会 専務理事）

17:20－17:30 閉会の辞 永野博（政策研究大学院大学 教授）

17:30－18:30 懇親会（立食パーティ形式、参加無料。）

ご挨拶：中村道治（科学技術振興機構 理事長）

和田昭允（東京大学名誉教授）

依田直也（イノベーション経営研究所 代表取締役社長）

# 2<sup>nd</sup> Symposium

- **9/1/2013**
- **Dinner on 8/1/2013**
- **at IFM in Cambridge University, UK**
- **Stay at Churchill College**
- **30~40 Persons from Japan, UK, etc**
- **Theme : Emerging Technologies**
- **Key Person : Sir Michael Gregory**

# Main Participants

- UK

**Sir Michael Gregory: Cambridge Univ**

**Dr. Hermann Hauser: Amadeus Capital**

**James Collier: Neul, CSR**

**etc**

- Japan

**Prof. Koichi Sumikura: GRIPS**

**Prof. Hiromi Saito, Chiba University**

**Hiroshi Asahina, Toshiba Medical**

**Yutaka Kuwahara, GVIN**

**etc**



# **3<sup>rd</sup> Dialogue for Global Innovation**

**on**

## **Urban Mobility, Smart Energy and Healthcare**

**focussed at**

**Risk Management of**

**Advanced Science & Technology**

# Summary of 3<sup>rd</sup> Symposium

- **At Graz in Austria (ams headquarters: ams design and manufacture analog ASIC)**
- **Sponsored by Austrian Embassy**
- **Theme: Urban Mobility, Smart Energy and Healthcare**
- **Participants: Toyota, Honda, Denso, Hitachi, Volvo, Bosch, Univ of Tokyo, GRIPS, AIT, etc**

# **Sharply Growing Alarming Problems in Urban Area**

- **Increasing car accidents**
- **Air pollution, hazardous to health**
- **Consumption of unnecessary huge Energy**
- **Aged people cannot go to target place**
- **Weakening Health**
- **Threatened Safety & Security**

# Key Issues

- **Innovative New Car**
- **Car Internet**
- **Social Infrastructure for Charging Cars**
- **Smart Energy**
- **New Mobility Market**
- **Balanced & optimum supply chain of carrier equipment**
- **Robotics**
- **Realization of Healthy Environment**

# Project Structure

- **Cross-cultural and cross-national**
- **One of series of International Symposium**
- **Base has economic & social impact of fundamental research**
- **Put emphasis on practical side (industries)**
- **Focus on Innovation as the collaboration between Industry, Government and Academia**

# Sponsors & Supporters

## Sponsors

- Embassy of Austria
- ams (usually called “austriamicrosystems”)

## Supporters

- EAJ (Engineering Academy of Japan)
- IDGJ (Institute for Dialogue for Global Innovation)
- GVIN (Global Venture Industry Network)
- Tokyo Club
- Japanese Society for Mechanical Engineers (JSME)
- GRIPS
- Cambridge University
- JDES
- IDES (International Development Engineering Society)
- JSSPRM (Japanese Society for Science Policy and Research Management )

# Action Program

Each member writes a position paper

- **April-May**                      **Discussion on key issues**
- **May**                                **Discussion with ams**
- **June**                               **Detailed Discussion & Meeting**
- **September**                      **Detailed Discussion & Meeting**
- **6<sup>th</sup> October 2014**              **Speakers' Dinner (Graz)**
- **7<sup>th</sup> October 2014**              **Symposium (Graz)**
- **8<sup>th</sup> October 2014**              **Symposium (Vienna)**

**The result (papers) will be published from Edward Elgar**

# Venue

- **Intermediate Meetings will be held in Japan**
- **The pre-Symposium dinner will be held at Graz (perhaps) in the previous evening of the Symposium**
- **3<sup>rd</sup> Dialogue for Global Innovation Symposium will be held on 7 & 8 October 2014 in Graz and Vienna**
- **Speakers' Dinner will be held on the 6<sup>th</sup> October**
- **The next day after Symposium, attendants will visit ams and some other facilities in Graz**
- **Financial support must be considered, through Austrian Embassy, and some private companies**



Symposium  
3<sup>rd</sup> Dialogue for Global Innovation  
on  
Urban Mobility, Smart Energy and Healthcare  
focused at  
Risk Management of Advanced Science & Technology

Date: 7<sup>th</sup> October, 2014  
Venue: ams at UPS near Graz  
Free of Charge  
Language: English  
Registration: <https://3rd-dialogue-for-global-innovation.eventbrite.com>  
Program might be subject to change

<<Program>>

9:00-9:10 Opening Address  
Representative of Austria Federal Economic Chamber

9:10-9:20 Introductory Speech  
Yutaka Kuwahara,  
ams Japan, GVIN Ltd.

9:20-10:05 Plenary Speech  
Innovation of Urban Mobility, Smart Energy and Healthcare

Ryo Hirasawa, University of Tokyo  
10:05-10:45 Analysis of Innovation in Japan:  
R&D activities of Japanese firms in automotive industry  
Koichi Sumikura, NISTEP/GRIPS  
University-Industry collaboration in Japanese automotive industry  
Hiromi Saito, Chiba University/GRIPS/NISTEP

10:45-11:00 Break

11:00-12:20 Case Studies of Innovation on Various Issues (1)  
Consideration of IT Potential for Mobility  
Markus Ray, AIT (Austria Institute of Technology)  
Urban Mobility, Data & City: cultural-graphics as a new form of understanding  
unexpected relationships of data  
Harald Moser, Ars Electronica Solutions  
Michael Badics, Ars Electronica Solutions  
Experimental Operation of New Concept Car at Gothenburg Project, Sweden  
Tord Hermansson, Volvo Car Corporation, Research & External Contracts  
3D Imaging LIDAR for Advanced Driving Assistance Systems  
Kazuo SATO, Toyota Central R&D Labs.,Inc.

12:20-13:30 Lunch

13:30-14:50 Case Studies of Innovation on Various Issues (2)

A Nobel Approach to a New Autonomous Car

Shigeo Numazawa, Denso

Innovative Big Data Analytics for Telematics and Autonomous Driving

Massimiliano Lenardi, Hitachi Europe R&D Center

Needs and Key Issues in the Next Generation Mobility

Tetsuya Gomi and Toshitake Kawai, Honda

Proposing Innovative Sensor Technologies for Urban Mobility

Bernd Gessner, ams

14:50-15:00 Break

15:00-16:00 Case Studies of Innovation on Various Issues (3)

Future Powertrain Development - Mastering Speed and Complexity

Hubert Friedl, AVL List GmbH

Connecting the smart car with the smart city

Steve Baker, The Technology Partnership plc

Deepening Relationship between Austria and Japan:

ams Internship program with Japanese Universities, Todai and Shuto University

Yutaka Kuwahara, ams Japan and GVIN Ltd.

16:00-16:15 Break

16:15-17:30 Panel Discussion

Moderator: Bernd Gessner, ams AG

Panelists: The Speakers above

17:30-17:40 Closing Remark

Bernd Gessner, ams AG

18:00 ams tour

19:00 Reception

# Timeline

- **1<sup>st</sup> Phase April 2011-March 2012**  
**Challenge the Shared Theme and Identify key issues in it and propose innovative solutions**  
**1<sup>st</sup> Symposium was held on December 1, 2011, at GRIPS, Tokyo**
- **2<sup>nd</sup> Phase April 2012-December 2013**  
**Follow-up the First Year and Challenge to new issues.**  
**2<sup>nd</sup> Symposium was held on the 9<sup>th</sup> January 2013 at IMF, Cambridge, UK, focusing on Healthcare**  
**Book publishing project started.**
- **3<sup>rd</sup> Phase January 2014-March 2015**  
**3<sup>rd</sup> Symposium will be held in Graz and Vienna, focusing on Urban Mobility, Smart Energy and Healthcare on 7 & 8 October 2014**
- **4<sup>th</sup> Phase April 2015-March 2017**  
**4<sup>th</sup> Symposium 12-13 October 2016 Graz and Vienna, Austria**
- **5<sup>th</sup> Symposium Sept - Nov 2017, Japan**
- **6<sup>th</sup> Symposium Sept – Nov 2018, Austria or UK**

# Next Step and Future

- **The 1st, 2nd and 3rd Symposiums were of great success. Then, the 4<sup>th</sup> Symposium will be organised by global team, mainly Japan Austria and UK, and expect another great success in Graz and Vienna. The fifth, sixth one ... will follow.**

# 4<sup>th</sup> Dialogue for Global Innovation

- **Date: Sept or Oct. 2016**
- **Place: Graz & Vienna, Austria**
- **Subject: Technology & Humanity**
- **Expected participants: about 60-70 of Japan-Europe industries, governments, universities and entrepreneurs.**
- **Industries: Automobiles, Sensors, Healthcare, Big Data, Robotics, etc.**

# Details of Japanese Participants

- **Austrian Embassy**
- **Prof. Yoshikazu Nakajima, University of Tokyo**
- **Prof. Ichiro Kanaya, Nagasaki University**
- **Prof. Toru Asahi, Waseda University**
- **Prof. Hisato Matsuo, Kyushuu University**
- **Ms. Kanako Miya**
- **Mr. Masao Nakajima, Nikon**
- **Ysuihiro Harada, General Manager, Technology, Matsuda + two npersons**
- **Taketoshi Kawai, Honda R&D**
- **Hitachi Europe**
- **Yuko Takano, et al Toppan**
- **Dr. Koyo Katsura, GVIN Ltd**
- **Dr. Yutaka Kuwahara, Representative Director, ams Japan and President & CEO of GVI N Ltd.**
- **etc**

**Total : 17**