



Hitotsubashi University
Institute of Innovation Research

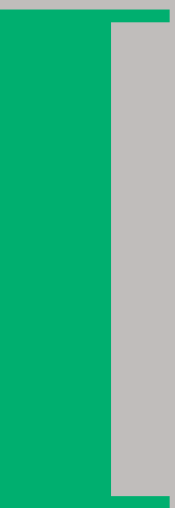
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ANNUAL REPORT 2014-2015



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ANNUAL REPORT FY2014 – FY2015

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‘To become a world-class of excellence for research in social processes of innovation’ — The Institute of Innovation Research (IIR) was established at Hitotsubashi University to achieve this aim in April 1997, as the result of the reorganization of the Institute of Business Research, whose main pursuit had been the theoretical and empirical analysis of business, society and management.

It is indispensable for a populous country with poor natural resources like Japan to generate innovation. The importance of innovation has considerably increased since 1990s when growth by catching up with Western competitors was no longer possible. At that time, however, we had only little understanding of how innovation was generated. Innovation was an agenda in the realm of technical development. People did not pay sufficient attention to the long, social process for turning technological invention into industrial development. Innovation is a complex social phenomenon in which economic, political, organizational, historical and legislative factors are correlated with each other. In order to clarify this process, there needed to be places for interdisciplinary, systematic research where people from various fields of social science could work together utilizing the knowledge of natural science. This is how the IIR was established as an interdisciplinary research institute concentrating on the innovation process.

Missions

The first mission of the IIR is to study the innovation generation process systematically and empirically, understanding innovation as something to bring about economic value, and to contribute to the improvement of theoretical and practical knowledge. The role of the IIR also encompasses the clarification of social and economical impacts of innovation.

The second mission is to build a bridge between theory and practice on innovation. Since innovation is “living phenomenon,” one needs to be deeply involved in the front line of practice and understand specific problems happening there. In order to achieve the ultimate objective of facilitating innovation, there should be certain mechanisms for applying theoretical knowledge to the front line of innovation. In this sense, the IIR has to play an important role in linking theory and practice.

The third mission is to be an open research center which serves as a place for knowledge fusions between researchers from different countries. As the importance of innovation is and will be growing in East Asian countries, promoting interactions with researchers from these countries is very important for Japan in contributing to the development of this region. Thus, the IIR's missions also include the accumulation of qualitative and quantitative information on Japanese innovation.

Research Areas

In order to pursue its mission of studying the innovation process systematically and empirically, the activities of IIR have covered the following areas of research since its establishment.

“Research on Technological Innovation” and “Research on Management Innovation” are the areas in which factors facilitating innovation such as technology, organizations and management methods are being studied. “Research on Entrepreneurs” analyzes the personal characteristics of entrepreneurs as innovation initiators in order to go deep into the realities of innovation. “Research on Social Networks” explores how networks of private firms, universities, individuals, and other entities and parties affect innovation.

“Business History Research” and “Technology History Research” look at the above areas of empirical research from a broader perspective, understand their historical contexts, and trace the development processes of innovation over time. “Research on Institutions for Innovation” focuses on clarifying the influences of accounting and legal systems (such as those about intellectual property rights) on innovation.

“Research on Knowledge Management” synthesizes and attempts to understand all these empirical areas of research from a broader, theoretical perspective. Finally, “International Comparative Research” involves comparison, demonstration and analysis on an international scale.

We believe that our research at the IIR offers an important opportunity to foster creativity and innovation in Japan in order to bring about transformation and development in business organizations and the economy. We wish to create a world-class, international research institute where people from all over the world can conduct research together.

I. Research Activities



1. Innovation Research Forum — Apr. 2014 ~ Mar. 2016

The following is the list of lectures given as part of the Innovation Research Forum during 2014-2015 academic year:

- | | |
|---------------|---|
| Mar. 16, 2016 | Dumisani Magadlela
Visiting Associate Professor, IIR
Programme Manager, Pan African Capacity Building Programme, Development Bank of Southern Africa
“You Cannot Teach a Lion to Roar: African Skills Development and Capacity Building: Challenging Old Paradigms While Grabbing New Opportunities” |
| Feb. 8, 2016 | Hitoshi Mitsuhashi
Professor, Organization and Management Theory in Faculty of Business and Commerce, Keio University
“Missing Contenders: Competitive Asymmetry and Organizational Inattentiveness to Potential Competitive Threats” |
| Feb. 3, 2016 | Jiangyun Wan
Adjunct Assistant Professor, IIR
“Brand Loyalty and Generic Competition” |
| Nov. 25, 2015 | Nabil Abou Lebdi
University of Luxembourg
“Radical Innovation - A domain of SMEs? A novel test of the Schumpeterian Hypothesis” |
| Nov. 4, 2015 | Matthias Kipping
Professor, Policy, Schulich School of Business, York University
“The Rise of Management Power: Business Schools, Consultants, Media” |
| Sep. 16, 2015 | Peter Ping Li
Asia Research Center, Copenhagen Business School
“The second-home strategy for international strategic entrepreneurship” |
| Jul. 15, 2015 | Nobuyuki Hanaki
Aix-Marseille University
“Cognitive Ability and Strategic Uncertainty in an Experimental Asset Market” |
| Jun. 24, 2015 | Kanchan Joshi
Data Scientist, Uhuru Corporation
“A Study of Resource Constrained Project Scheduling Problems with Preemption and Learning” |
| Apr. 22, 2015 | Iilir Haxhi
Assistant Professor, Amsterdam Business School, University of Amsterdam
“Patent Enforcement under Strong Intellectual Property Rights: The Liability of Foreignness in US Patent Litigation” |
| Apr. 15, 2015 | Min, Jungwon
Assistant Professor, Faculty of Economics, Kyushu University
“Sensitivity of Alliance Termination to Pre-Alliance Formation Conditions: Expectation Effects of Alliance Partners” |

- Dec. 24, 2014 Michele Ruiters
Visiting Associate Professor, IIR / Regional Integration Specialist, Knowledge Management and Innovation, Strategy Division, Development Bank of Southern Africa
“Mitigating Risk in Post-Conflict Finance in Africa: A sustainable development finance opportunity”
- Oct. 22, 2014 Takuto Shishido
Lecturer, Musashino University
“Why Extroverts Make Friends with People from Other Cultures at Workplaces: The Role of Psychological Diversity Climate”
- Oct. 15, 2014 Stefan Wagner
Associate Professor, ESMT European School of Management and Technology
“Public goods, patent thickets and conflict resolution”
- Sep. 8, 2014 Wendy Li
U.S. Bureau of Economic Analysis
“Organizational Capital, R&D Assets, and Offshore Outsourcing”
- Akiyuki Tonogi
Hitotsubashi University
“Economic Growth Analysis on Japan in Dynamic General Equilibrium: Model with R&D and Human Capital”
- Jul. 16, 2014 Hiroshi Shimizu
Associate Professor, IIR
Naohiko Wakutsu
Research Associate, The Health Care Science Institute
“Entrepreneurial Spin-Outs and Vanishing Technological Trajectory: Laser Diodes in the US and Japan”
- Jun. 3, 2014 Rudi Bekkers
Professor, Eindhoven University of Technology
“Does working with industry come at a price?: A study of doctoral candidates’ performance In collaborative vs. non-collaborative PhD projects”
- Apr. 30, 2014 Ilir Haxhi
Visiting Associate Professor, IIR / Assistant Professor, Amsterdam Business School, University of Amsterdam
“Institutional Configurations and the Cross-National Diversity of Corporate Governance”
- Apr. 16, 2014 Giuseppe Scellato
Assistant Professor, Department of Management and Production Engineering, Politecnico di Torino
“Public Venture Capital in Europe: the role of ownership and compensation schemes on VC teams investment strategies”

2. Joint Research Projects — Apr. 2014 ~ Mar. 2016

At the IIR, we have the advantage of a team of researchers covering many areas of scholarship to carry out joint research into themes that have not previously been touched upon. The following are the joint research projects that researchers engaged in during the 2014-2015 academic year.

(* = Project Leader, or Coordinator)

■ Research on Scientific Sources of Innovations and Economic Impacts of Science

1. Objectives

1) Case Study and Survey Analysis of Science Sources of Innovation

We will conduct interviews/surveys with regard to innovators/inventors in (mainly) the pharmaceutical/biotechnology fields about the scientific sources of new drug discovery and inventions, and construct a comprehensive dataset for analyzing the mechanism of scientific contributions to the innovation process.

2) Knowledge Flow Analysis

Using the above dataset, we will develop a method to grasp knowledge flows from scientific discoveries to innovations from bibliographic information (backward/forward citations and co-authors) of scientific papers and patents.

3) Economic Impact Analysis

We will evaluate the economic impact of innovations based on scientific discoveries. Finally, we aim to make policy recommendations for improving the measurement of economic contributions of science-based innovations and for enhancing the contribution of science to innovation performance.

2. Time Period

Autumn 2012-2015

3. Members

Sadao Nagaoka*, Akira Endo, Yasushi Hara, Yusuke Naito, Yoshiyuki Ohsugi (IIR), Kenta Nakamura (Kobe University), Junichi Nishimura (Gakushuin University), Naotoshi Tsukada (National Graduate Institute for Policy Studies), Akira Nagumo (Office of Pharmaceutical Industry Research), Koichi Genda (Office of Pharmaceutical Industry Research), Yuji Honjo (Chuo University), Eiko Shimizu (Japan Bioindustry Association), Hideo Kawabe (Japan Bioindustry Association), and Yumi Shimizu (Japan Bioindustry Association)

4. Outline

Our research project consists of the following three components: (A) Case Study and Survey Analysis of the Science Sources of Innovation, (B) Knowledge Flow Analysis, and (C) Economic Impact Analysis.

In (A) Case Study & Survey Analysis of the Science Sources of Innovation, we aim at conducting (1) detailed case studies of scientific sources for “blockbuster” drugs which have been invented and developed in Japan, (2) questionnaire surveys on the science sources for drugs in the pharmaceutical industry and of bio startups in Japan, in collaboration with Japan Pharmaceutical Manufacturers Association and Japan Bioindustry Association, and (3) a follow-up Inventor Survey in collaboration with RIETI, which examines the scientific sources of inventions in all technology fields.

In (B) Knowledge Flow Analysis, using the results of the above case studies and questionnaire surveys as a benchmark, we evaluate how bibliographic data (backward/forward citations, co-authors and

co-inventors) of patents/scientific papers predict actual knowledge flow for innovation. Then, we propose to develop a method to enhance the correlation between bibliographic data and the actual knowledge flow.

Finally in (C) Economic Impact Analysis, we assess the contribution of science to the economic impacts of the innovations. We classify the drugs based on the degree of scientific contribution and assess the economic impact of science by using different indicators of outcomes, such as drug efficacy, wide therapeutic applications, pharmaceutical prices and quantities in international comparison. We also examine the degree of firms' and/or inventors' absorptive capacity for scientific sources in order to obtain managerial implications for innovation. Eventually, our research project aims to propose policy recommendations that will empower science-based innovations.

5. Research Outputs during FY2014-FY2015

Research Reports:

http://www.ristex.jp/examin/stipolicy/pdf/20141215_04.pdf

<http://www.ristex.jp/archives/fin/index.html>

Working Papers and an Article:

- (1) Hara, Yasushi, Yoshiyuki Ohsugi and Sadao Nagaoka, "A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Actemra (JST-N-CASE01)," IIR Working Paper WP#14-07, October 2014
- (2) Takada, Naoki, and Hideo Kawabe "A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Leuplin(JST-N-CASE02) ," IIR Working Paper WP#14-08, January 2015
- (3) Nagaoka, Sadao and Isamu Yamauchi, "Scientific Sources of Corporate Inventions in Japan: Evidence from an Inventor Survey," RIETI Discussion Paper 14-J-038, August 2014
- (4) Hashizume, Misato and Yoshiyuki Ohsugi, "IL-6 as a Target for Inflammation," *Endocrine, Metabolic & Immune Disorders - Drug Targets*, Vol. 15, 2015
- (5) Takada, Naoki, and Koichi Genda, "A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Pioglitazone (JST-N-CASE03) ," IIR Working Paper WP#15-02, January 2015
- (6) Takada Naoki, Koichi Genda and Akira Nagumo, "A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Blopess (JST-N-CASE04)," IIR Working Paper WP#15-03, January 2015
- (7) Hara, Yasushi and Sadao Nagaoka, "A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Mevalotin (JST-N-CASE06)," IIR Working Paper WP#15-06, March 2015
- (8) Hara, Yasushi and Hideo Kawabe, "A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Aricept (JST-NCASE08) ," IIR Working Paper WP#15-07, March 2015
- (9) Nagaoka, Sadao and Yasushi Hara, "A Case Study on Discovery and Clinical Development of a Break-through drug in Japan: Compaction (JST-N-CASE05)," IIR Working Paper WP#15-08, March 2015

- (10) Nagaoka, Sadao, Junichi Nishimura and Koichi Genda, “Drug Discovery and Science: Findings from a Project-level Survey on Pharmaceutical Innovations and Their Economic Impacts in Japan (Part I),” IIR Working Paper WP#15-16, August 2015
- (11) Sadao Nagaoka, Junichi Nishimura and Koichi Genda, “Clinical Research and Science: Findings from a Project-level Survey on Pharmaceutical Innovations and Their Economic Impacts in Japan (part II),” IIR Working Paper WP#15-17, August 2015

Presentations:

- (1) Hara, Yasushi, “The Impact of Scientific Collaboration on Pharmaceutical Innovation: Comprehensive Story of Statins Invented in Japan- Compactin, Mevalotin and Crestor,” Annual Conference of the Association of Japanese Business Studies, June 2014, Vancouver, Canada
- (2) Hara, Yasushi, “How Star Scientist Make High Performance?: Empirical Study for Destructive Innovation in Pharmaceutical Industry,” 30th European Group for Organizational Studies Colloquium, July 2014, Rotterdam, the Netherlands
- (3) Hara, Yasushi, “Re-active and Active Innovation Network: A Comparison Study of R&D Process for Antibody Drugs,” 15th the International Joseph Alois Schumpeter Society Conference, July 2014, Jena, Germany
- (4) Hara, Yasushi, “The Impact of Scientific Collaboration on Pharmaceutical Innovation: Case Study of Blockbuster Drugs in Japan and US,” 2nd AIEA (Asian Innovation and Entrepreneurship Association) -NBER (National Bureau of Economic Research) Conference, Korean Advanced Institute for Science and Technology, August 2014, South Korea
- (5) Hara, Yasushi, “Re-active and Active Innovation Network: A Comparison Study of R&D Process for Antibody Drugs,” Mitsubishi Bank Foundation International Conference, August 2014, Kanagawa
- (6) Hara, Yasushi, “How Star Scientist Make High Performance?: Empirical Study for Destructive Innovation in Pharmaceutical Industry,” International Federation of Scholarly Associations of Management 2014 World Congress in Tokyo, September 2014, Tokyo
- (7) Hara, Yasushi, “The Distance between Science and Innovation—Quantitative Analysis Based on Science Linkage Database,” Annual Conference of Japanese Economic Association, Seinan Gakuin University, October 2014, Fukuoka
- (8) Hara, Yasushi, “Scientific Network and Sources of Destructive Innovation: Twelve Case Studies of Path-breaking drug Invented in Japan,” the 5th Asia-Pacific Innovation Conference, November 2014, Sydney, Australia
- (9) Yamauchi, Isamu, “Use of Science for Inventions and Its Disclosure: Patent Level Evidence Matched with a Survey Result,” Workshop on Knowledge, IPRs and Innovation, November 16, 2014, Tokyo
- (10) Nishimura, Junichi and Sadao Nagaoka, “Private and Social Performance of Science Intensive Drugs: Evidence from New Drugs Launched in Japan,” 5th Asia–Pacific Innovation Conference, November 2014, Sydney, Australia
- (11) Honjo, Yuji, “Initial Public Offerings of Start-up Firms: Evidence from Japan,” 5th Asia-Pacific Innovation Conference, November 2014, Sydney, Australia

■ magicc: Micro Analysis on Green Innovation and Corporate Competitiveness

1. Outline of Research

Former Democratic Party of Japan Prime Minister Hatoyama's declaration at the Copenhagen Summit of Japan's intention to reduce greenhouse gases (GHG) by 25% by 2020 compared with 1990 is still a fresh memory. On the other hand, the Great East Japan Earthquake resulting in the accident at the Fukushima Nuclear Power Station, raised a question for the construction of new nuclear plants, and even for the continued use of existing facilities. Japan currently is confronted with three serious issues, in terms of its "energy problem (stable energy supply)," "environmental problem (reduction of greenhouse gases)" and "industrial problem (long-term economic development)". The situation is like a complex simultaneous equation that at first glance appears to have no solution. Magicc is a research project aimed at solving this complex equation from the micro-perspective of management scholars by conducting in-depth fieldworks.

2. Time Period

FY2011-present

3. Members

Yaichi Aoshima*, Masatoshi Fujiwara (Graduate School of Commerce and Management), Kazunari Matsushima (The University of Tokushima), Youngjae Koh (Konan University), Tomono Miki (Chuo University), Atsushi Tsumita (Musashino University), Kenji Asano (Central Research Institute of Electric Power Industry), Hiromi Kubota (Central Research Institute of Electric Power Industry)

4. Research Activities and Outputs during FY2014-FY2015

A part of our research activities as well as reports of research meetings are disclosed in the following website (in Japanese).

<http://magicc.iir.hit-u.ac.jp>

Articles:

(In Japanese)

Aoshima, Yaichi and Kenji Asano, "Overcoming Forces that Distort Renewable Energy Policies: An Analysis on the Impact of FIT in Japan on the Rooftop PV Market," *Journal of the Japan Institute of Energy*, Vol. 94 No. 7, July 2015, pp. 627-639

Aoshima, Yaichi and Atsushi Tsumita, "A Framework for Understanding Development of the ICT Industry," *Nextcom*, KDDI Research Institute, Vol. 22, May 2015, pp. 34-43

Aoshima, Yaichi, "Issues in Environmental Protection and Energy Supply from a Perspective of Management Scholar (1)-(6)," *Shosainomado* (The Window of Author's Study), Yuhikaku, Issue September 2014 (No.635)-Issue July 2015 (No. 640)

Fujimoto, Takahiro, Junjiro Shintaku and Yaichi Aoshima, "Simultaneously Pursuing Environment, Energy, and Industry Competitiveness: Importance of a Micro Perspective," in Fujimoto, Takahiro, Junjiro Shintaku and Yaichi Aoshima, eds., *Uncovering the Real Potential of Japanese Manufacturing*, Toyokeizai, February 2015, Chap. 9, pp. 258-297

Tsumita, Atsushi and Yaichi Aoshima, "Public-private-partnership in the Japanese Water Business," *Annual Report of the Institute of Political Science & Economics, Musashino University*, No. 9, July 2014, pp. 75-101

Business Cases & Working Papers:

(In Japanese)

Aoshima, Yaichi and Tomono Miki, "Use of Geothermal Energy in Iceland," in Mizukami, Takahisa, ed., *Handbook on Regulations and Practices Regarding Development and Operation of Renewable Energy*, NTS Inc., March 2016, pp. 80-88

Aoshima, Yaichi and Wen Wang, "Effective Mobilization of Scarce Resource through Social Networks: Exploring Mechanism that Accelerated the Growth of the Chinese PV Industry," *Hitotsubashi Business Review*, Vol. 63, No. 3, December 2015, pp. 34-47

Asano, Kenji and Yaichi Aoshima, "An Effect of Governmental Subsidy on Price of the Roof-top PV System," IIR Working Paper WP#15-09, March 2015

Fujiwara, Masatoshi and Yaichi Aoshima, "Nitto Denko Corporation: Development of Reverse Osmosis Membrane and its Application," IIR Case Study CASE#14-02, October 2014

Fujiwara, Masatoshi and Yaichi Aoshima, "Business Case / Toyobo: Development of Reverse Osmosis Membrane and Its Business," *Hitotsubashi Business Review*, Vol. 62, No. 1, June 2014, pp. 102-119

Presentation:

Aoshima, Yaichi, "Forces that Distort Renewable Energy Policies: An Analysis of the Policy Impact on the Rooftop PV Market in Japan," presented at the NUS-IIR Workshop on Innovation 2015, National University of Singapore, September 11, 2015, Singapore

Aoshima, Yaichi, "Management and Innovation Required for Implementing Growth Strategy," the 6th Tokyo Institute of Technology and Hitotsubashi University Joint Traveling Seminar, December 7, 2014, Aichi (Keynote Speech)

Aoshima, Yaichi and Hiromi Kubota, "Economy of Small-scale Geothermal Power Plant Using Hot Springs," presented at Annual Meeting of the Japan Institute of Energy, July 19, 2014, Fukuoka

Kubota, Hiromi and Yaichi Aoshima, "Social Acceptance of Small-scale Geothermal Power Plant Using Hot Springs," presented at Annual Meeting of the Japan Institute of Energy, July 19, 2014, Fukuoka

Aoshima, Yaichi, "Promoting Right Management and Innovation with Uncertainty," the 1st Symposium on MOT and Innovation, hosted by Japan Techno-Economics Society, June 10, 2014, Tokyo (Special Lecture)

■ Project on Networks and Innovations

1. Outline of Research

Given a growing concern for how networks help mobilize resources more flexibly than traditional hierarchies in today's rapidly changing environments and how social capital can be usefully mobilized to sustain such resource allocation, this research focuses on identifying and analyzing the underlying determinants of successful institutional arrangements of organization and networking at two levels of analysis. First, at the organizational level we examine in some detail the emergent experiments of introducing cross-functional teams to defense systems development in the current context of defense procurement reforms among allies. Second, we investigate the emerging networking patterns of Chinese entrepreneurs from Wenzhou, Zhejiang province, whose striking economic success has been widely recognized, in comparison with their counterparts from several locales from Fujian province. In particular, we examine the extent to which Wenzhouese entrepreneurs' rapid rewiring patterns of their links with various transnational locales is related to their success in the light of small-world network theory that accommodates both local cohesiveness (high clustering coefficient) and efficient network information transmission (short path length). As in previous years we have continued to conduct our comparative field research in Japan, China, and Europe and published preliminary research results in the forms of working papers and articles in the media, and will publish a major academic book pulling together all the important findings.

2. Time Period

FY2004-present

3. Members

Toshihiro Nishiguchi*, Motoko Tsujita (Ryukoku University)

4. The Findings of Our Study

Qualitative and quantitative evidence from our study of Wenzhou's economic success documents (1) the structural effectiveness of expatriates' rewiring of community networks to capture information and wealth from afar, (2) how the abundance of their community capital facilitates community members' sharing and exploitation of nonredundant information, (3) how real world "global neighborhoods" established at the community level are consistent with, and operationalize, the tenets of small-world network theory, and (4) how its exclusionary aspect may limit the evolvability of community cohesion. Our evidence further suggests that prosperity beyond what accrues to one's cognition and resources may lie in the successful operation of small-world networks. We noted earlier that both structure and agency are necessary, but add here that they are not sufficient; how they are connected is crucial as well.

We compared, through the lenses of social capital, trust and norms, the community networks, migration and rewiring patterns, and social cohesion characteristic of expatriate communities from Wenzhou and Fujian provinces. The similarities we observed in terms of human capital (low educational levels), initial migration patterns (smuggled abroad, often with the aid of organized crime), types of work (menial jobs), resources (loans from family members and relatives), proportion of foreign expatriates to hometown population (upper single-digit percentage point), and timing of emigration (a few decades after the 1978 Reform and Opening-up Policy) belie the striking differences we documented in the development and viability of the enterprises the respective groups established on foreign soil.

We found Wenzhou expatriates, by and large, to be successful and prosperous, continuously expanding their businesses assisted by community networks that facilitate constant search for new opportunities. In contrast, expatriates from Fuqin and elsewhere in Fujian province, especially those who emigrated to Japan, operating largely alone, with little prospect for collective activity, often became involved in internecine struggles and not infrequently turned to petty or even violent crime. Underlying these

divergent outcomes were markedly contrasting community norms and values. Wenzhou natives exhibited an avid entrepreneurship, expressed as a desire to be the “head of a chicken rather than the tail of a peacock,” and deep embeddedness in and harmony with their hometown community. Among Fuqin natives and others from Fujian province we observed a hand-to-mouth orientation to life and deeply-ingrained norm of risk avoidance reflected in the life pursuit of erecting in their hometown a three-story “stowaway palace” in which to retire in comfort to the envy of their immediate neighbors.

The mobility patterns of expatriates from Fuqin and proximate locations, consistent with those of their predecessors, some of them successful entrepreneurs in South East Asia, were by and large of the “I-turn” type between their hometown and a particular foreign destination. These contrast with Wenzhou natives’ more recent “zigzagging” itineraries that may land them, for varying lengths of time, in any number of countries. Their seemingly similar transnationality notwithstanding, the mobility patterns of Fuqin and nearby natives are consistent with “regular networks” in which nodal connections and information flows are predictable and overlapping, those of their Wenzhou counterparts more in line with “small worlds” characterized by elements of random, irregular rewirings embedded in regular, predictable node connections among the broader community. Whereas the former focuses on, and is largely circumscribed by, “next-door relations,” even across national borders, the latter mixes an element of “long-distance relations” with the broad, cohesive base of next-door relations to foster dynamism and adaptability to ever-changing environments. A little bridging thus complements a lot of bonding, and vice versa. We have examined, in the light of new network theory, the considerable, and predictable, differences in the collective information-processing and wealth-generating capabilities, and community-wide, informal welfare functions, of these two groups.

The very same social networks that supported and facilitated the development of a vibrant Wenzhou economy, however, were also implicated in the 2011 Wenzhou financial crisis, indicating limits to cohesive bonding with closure that threaten to curb further development of industrial structures. The distinct type and quality of community capital and trust that spawned and spurred Wenzhou’s prosperity continues to exhibit a primitive attribute of social interaction based exclusively on kinship and the cohesiveness of the hometown community that may in the long run be incongruent with further geographical expansion and active engagement in transnational businesses. This exclusionary element of Wenzhou community capital, in forestalling the development of the “universalistic trust” essential to the ability to rely on and work with strangers, including compatriots from other regions and foreigners, threatens to prevent Wenzhou from transcending the classic premodern society, the economy of which, as posited by Karl Polanyi remains embedded in and intertwined with traditional cultural and political aspects. That Wenzhouese products, processes, and businesses, from production of daily commodities to real-estate investments to usury, remain almost exclusively within easily imitable domains strongly suggests that the “Wenzhou model,” especially as propagated in China, could very well run its course and the long-term viability of Wenzhou businesses be more limited than generally believed, particularly in China. Nor do Wenzhou firms’ low level of research and development (R&D) expenditures (0.85% of Wenzhou city’s GDP compared to 1.49% for China and 1.52% for Zhejiang province, on average, in 2007) and low profit rates (1%-3%) of its small- and medium-sized enterprises (SMEs) bode well.

The foregoing observations do not negate, but rather further attest to, the usefulness of analyzing economic activities, behavior, and performance within the frameworks of community capital, trust, social embeddedness, and the latest network theory. They also suggest, however, some important implications of constraining conditions inherent in the objects under study.

■ Economic Growth Analysis of Science, Technology and Innovation Policy

1. Outline of Research

In this project, we developed a framework for analyzing and evaluating the economic impacts of science, technology, and innovation (STI) policies. In addition, this project conducted economic analyses on important issues in particular policy areas such as 1) knowledge production, 2) human resources, 3) R&D investments and 4) international knowledge transfer. Our goal was to present methods, data, and empirical estimates (results) to policy makers, policy analysts, other stakeholders and general public who were not familiar with economic analysis.

2. Time Period

September 2012 - September 2015

3. Members

Makoto Nirei*, Ryuichi Tamura, Megumi Kimura (IIR), Akiyuki Tonogi (Institute of Economic Research, Hitotsubashi University), Shuhei Aoki (Shinshu University), Koki Oikawa (Waseda University), Kensuke Miyazawa, Tetsushi Murao (Kyusyu University) and Masaoki Tamura (Kyoto University)

4. Research Activities and Outputs during FY2014-FY2015

Articles:

Oikawa, K. (2015), "R&D in Clean Technology: A Project Choice Model with Learning," *Journal of Economic Behavior and Organization*, Volume 117, 2015, pp.175-195.

Nirei, M. (2015), "An Interaction-based Foundation of Aggregate Investment Fluctuations," *Theoretical Economics*, Vol.10, pp. 953-985.

Murata, Y., R. Nakajima, R. Okamoto and R. Tamura (2014), "Localized Knowledge Spillovers and Patent Citations: A Distance-based Approach," *The Review of Economics and Statistics*, Vol. 96, No. 5, Pages 967-985.

Kawaguchi, D., T. Murao, and R. Kambayashi (2014), "Incidence of Strict Quality Standards: Protection of Consumers or Windfall for Professionals?," *Journal of Law and Economics*, 57(2), pp.195-224.

Murao, T. (2014), "Firm Size Distribution in Oblivious Equilibrium Model with Quality Ladder," *Advances in Intelligent Systems and Computing*, 290, pp.99-106.

Working Papers:

Tonogi, A., M. Kitaoka, and W. Li (2015), "Empirical Research on Depreciation of Business R&D Capital," ESRI Discussion Paper Series, No. 319.

Oikawa, K. and K. Ueda (2015), "The Optimal Inflation Rate under Schumpeterian Growth," CAMA WP#2015-14.

Oikawa, K. and K. Ueda (2015), "State-Dependent Pricing, Firm Entry and Exit, and Non-Neutrality of Money," CAMA WP#2015-03.

Tamura, M. (2014), "Margin Rate Rule: A New Pharmaceutical Price Control Policy," IIR Working Paper, WP#14-03.

3. Conferences — Apr. 2014 ~ Mar. 2016

■ NUS-IIR Workshop on Innovation

D-ETM (Division of Engineering & Technology Management), NUS
IIR, Hitotsubashi University
11 (Fri) – 13 (Sun) September 2015, NUS

1. Program

Sep. 11 (Fri) 14:00-18:30 Workshop by Faculty members
18:45-20:00 Reception
12 (Sat) 09:00-10:45 Students presentation (AM session)
11:00-12:00 Keynote speech by Prof. Nobeoka (Director of IIR)
13:00-17:00 Students presentation (PM session)
13 (Sun) 10:00-12:00 Conference tour (Library, etc.)

2. Participants

D-ETM, NUS

Prof. Chang Chieh Hang (Head, D-ETM, Exec. Dir. IEL)
Prof. Chihiro Watanabe (Visiting Prof., D-ETM)
Prof. Foo Maw Der (Associate Prof., D-ETM)
Prof. Chai Kah Hin (Deputy Head, D-ETM)
Dr Annapoornima Subramanian (Assistant Prof., D-ETM)
Prof. Wim Vanhaverbeke (Visiting Prof., D-ETM)
Dr Angeline Lim (Research Fellow, D-ETM)
5 Students (Post graduates/Post Dr)
5 Japanese representatives in Singapore

IIR, Hitotsubashi University

Prof. Kentaro Nobeoka (Director, IIR)
Prof. Yaichi Aoshima (Dean, IIR)
Prof. Manabu Eto (Prof., IIR)
Prof. Masaru Karube (Associate Prof., IIR)
Dr Megumi Kimura (Adjunct Assistant Prof., IIR)
4 Students (Post graduates)

3. Subject

Institutional Sources of Innovation

Day 1 Sep. 11 (Fri)

14:00-18:30 Workshop (20 min. presentation, 15 min. Discussion)

14:00-14:05 Opening

14:05-14:20 Introduction

14:20-14:40 Prof. Aoshima

“Forces that Distort Renewable Energy Policies: An Analysis of the Policy Impact on the Rooftop PV Market in Japan” (Moderator: Chai)

14:40-14:55 Discussion

14:55-15:15 Prof. Hang

“Strategies of a Small Nation (Singapore) in Technological Innovation: Global Partnership and Talent Development” (Moderator: Aoshima)

- 15:15-15:30 Discussion
- 15:45-16:05 Prof. Eto
“The Secret of Innovation in Switzerland” (Moderator: Watanabe)
- 16:05-16:20 Discussion
- 16:20-16:40 Prof. Watanabe
“Operationalization of Un-captured GDP toward a Post Excessive Consumption Society: Similarity and Disparity between Singapore and Finland” (Moderator: Eto)
- 16:40-16:55 Discussion
- 16:55-17:15 Prof. Karube
“Post-Merger Integration: Who Owns Interorganizational Relationships?-Post-Merging Integration through Client Sharing between Accounting Firms” (Moderator: Foo)
- 17:15-17:30 Discussion
- 17:30-17:50 Prof. Foo
“Building a Research Agenda on Individual and Team Determinants of Academic Entrepreneurship” (Moderator: Karube)
- 17:50-18:05 Discussion
- 18:05-18:30 Overall discussion
(Moderators: Hang and Nobeoka)

■ Workshop on the Disclosure Function of the Patent System

Date: March 7th (Saturday) 2015

Time: 13:00 pm to 17:30 pm

Venue: First Floor of National Center of Sciences Building (Gakujutsu Sogo Center)
(Chiyoda Campus of Hitotsubashi University, 2-1-2 Hitotsubashi, Chiyodaku, Tokyo, Japan)

Program:

13:00 Keynote speeches (40 minutes each, 20 minutes Q&A)

Chair Sadao Nagaoka

(1) “Do Inventors Value Secrecy in Patenting? Evidence from the American Inventor’s Protection Act of 1999,”

Stuart GRAHAM, Georgia Institute of Technology and USPTO

(2) “Patent Systems and Citation Metrics,”

Bruno VAN POTTELSBERGHE, Dean, Solvay Business School

15:30 Presentations of work in progress (25 minutes each, 15 minutes Q&A)

Chair Yosuke Okada

(1) “Effects of Early Patent Disclosure on Knowledge: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States,”

Yoshimi OKADA, IIR

(2) “Effects of Early Initiation of Patent Examination on the Examination Quality,”

Isamu YAMAUCHI, RIETI

(3) “Use of Grace Period and its Impact on Knowledge Flow: Evidence from Japan,”

Sadao NAGAOKA, IIR

17:30 Closing

■ Symposium: Innovation Power of Small Countries

Organized by
IIR
27 February, 2015

Venue:
National Center of Science Building, 2nd Floor 2-1-2 Hitotsubashi, Chiyodaku, Tokyo, Japan

Objective:
To expand the knowledge and develop the idea for innovation management and Innovation policy making.

Program 27 February

- 13:00 Opening and Welcome
 Professor NOBEOKA, Kentaro
 (Director, IIR)
- 13:10 Keynote Speech
 Title: Strategies of a Small Nation (Singapore) in Technological Innovation:
 Global Partnership and Talent Development
 Professor HANG, Chang Chieh (National University of Singapore)
- 14:00 Title: The Swiss innovation system
 Dr. BAUMANN, Caroline (Head of Economic and Financial Affairs, Embassy of Switzerland)
- 14:40 Session 1
 Title: Danish Strategic Participatory Design Approach
 Dr. YASUOKA, Mika (Technical University of Denmark)

 Title: Dutch Food Valley Innovation System
 Professor ITO, Munehiko & MATSUMOTO, Yoichi (Kobe University)

 Title: Innovation Nation, Israel
 NAKASHIMA, Isamu
- 16:30 Session 2
 Panel discussion
 Lead
 Professor WATANABE, Chihiro (National University of Singapore)
- 17:30 Closing
 Professor ETO, Manabu (IIR)

■ Workshop on Knowledge, IPRs and Innovation

Date: November 16th (Sunday) 2014

Venue: Expert-Club

(Kasumigaseki Common Gate Shop & Restaurant Annex 1F, 3-2-3 Kasumigaseki, Chiyoda-ku)

Organized by

IIR

15:30 to 17:00

1. Presentations by Japanese scholars

Chair: Dietmar Harhoff, Professor and Director for Innovation and Entrepreneurship
Research, Max Planck Institute for Innovation and Competition

(1) Tetsuo Wada, Gakushuin University

“Quality Comparison of International Search Reports”

(2) Yoshimi Okada, IIR

“Effect of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States”

(3) Isamu Yamauchi, Research Institute of Economy, Trade and Industry

“Use of Science for Inventions and its Disclosure:
Patent Level Evidence Matched with a Survey Result”

17:10 to 18:40

2. Keynote presentations

Chair: Sadao Nagaoka, IIR

(1) Keun Lee, Seoul National University,

“Catching-up with ‘Similar or Different’ Technologies?: Answers from Huawei’s Catch-up with Ericsson”

(2) Beth Webster, University of Melbourne

“Patent Examination Outcomes in the IP5 Offices”

(paper with Gaetan de Rassenfosse, Paul Jensen, and Alfons Palangkaraya)

■ International Workshop on Patent System Design for Innovation

Date: August 1st (Friday) 2014

Venue: IIR Conference Room, Second Floor of the IIR Building

Organized by
IIR

12:00 to 13:30

Chair Sadao Nagaoka, Professor, Hitotsubashi University

Luncheon Key-note Speech on “A Perspective of Japanese Patent System”

Hidetaka Aizawa, Professor, Hitotsubashi University (60 minutes presentation)

13:30 to 15:00

Chair Reiko Aoki, Professor, Hitotsubashi University

Key note speech on “Patents and Diffusion: Global Drug Launches”

Mark Schankerman, Professor, London School of Economics (60 minutes presentation)

15:00 Presentations of three ongoing research (45 minutes each, including Q&A)

Chair Mark Schankerman, Professor, London School of Economics

(1) “Quality Comparison of International Search Reports (ISRs) by Selectable International Search Authorities (ISAs) under the Patent Cooperation Treaty (PCT) System”

Tetsuo Wada (Gakushuin University) and Setsuko Asami (Tokyo University of Science)

(2) “Effect of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States”

Yoshimi Okada (IIR) with Sadao Nagaoka (IIR)

(3) “Early Clarification of Patent Rights and Innovation: Evidence from Post-grant Opposition System in Japan”

Sadao Nagaoka (IIR) with Kenta Nakamura (Kobe University)

Acknowledgement: Supported by JSPS (Kakenhi B- 26285055) and by JST funded project on “Science Sources of Innovation”

II. Researchers



1. Full-time Researchers

Profiles & List of Research Achievements — FY 2014 ~ FY 2015



Yaichi Aoshima

■ Education

- 1996 Ph.D. (Management), Sloan School of Management, Massachusetts Institute of Technology
- 1989 M.C. (Business Administration), Hitotsubashi University
- 1987 B.C. (Commerce), Hitotsubashi University

■ Professional Positions

- 2012~ Professor, Institute of Innovation Research, Hitotsubashi University
- 1999 Associate Professor, Institute of Innovation Research, Hitotsubashi University
- 1997 Assistant Professor, Institute of Innovation Research, Hitotsubashi University
- 1996 Assistant Professor, Institute of Business Research, Hitotsubashi University

■ Research Achievements

1. Publications

1.1. Book

Fujimoto, Takahiro, Junjiro Shintaku and Yaichi Aoshima, eds., *Uncovering the Real Potential of Japanese Manufacturing*, Tokyo: Toyo Keizai, February 2015, 302 pages

1.2. Articles and Chapters in Books

(In Japanese)

Aoshima, Yaichi and Tomono Miki, “Use of Geothermal Energy in Iceland,” in Mizukami, Takahisa, ed., *Handbook on Regulations and Practices Regarding Development and Operation of Renewable Energy*, NTS Inc., March 2016, pp. 80-88

Aoshima, Yaichi and Wen Wang, “Effective Mobilization of Scarce Resource through Social Networks: Exploring Mechanism that Accelerated the Growth of the Chinese PV Industry,” *Hitotsubashi Business Review*, Vol. 63, No. 3, December 2015, pp. 34-47

Aoshima, Yaichi and Kenji Asano, “Overcoming Forces that Distort Renewable Energy Policies: An Analysis on the Impact of FIT in Japan on the Rooftop PV Market,” *Journal of the Japan Institute of Energy*, Vol. 94, No. 7, July 2015, pp. 627-639

Aoshima, Yaichi and Atsushi Tsumita, “A Framework for Understanding Development of the ICT Industry,” *Nextcom*, KDDI Research Institute, Vol. 22, May 2015, pp. 34-43

Aoshima, Yaichi and Kiyonori Sakakibara, “Invitation to Management Science (1)-(4),” *Hitotsubashi Business Review*, Vol. 62, No. 1-4, June 2014-March 2015

Matsushima, Kazunari and Yaichi Aoshima, “Indirect Spillover Effects of Public Support on Private R&D: An Analysis on NEDO Follow-up Surveys,” *The Journal of Science Policy and Research Management*, Vol. 30, 2015, pp. 221-239 (refereed)

Fujimoto, Takahiro, Jyunjiro Shintaku and Yaichi Aoshima, “Simultaneously Pursuing Environment, Energy, and Industry Competitiveness: Importance of a Micro Perspective,” in Fujimoto, Takahiro, Jyunjiro Shintaku and Yaichi Aoshima, eds., *Uncovering the Real Potential of Japanese Manufacturing*, Tokyo: Toyo Keizai, February 2015, Chap. 9, pp. 258-297

Tsumita, Atsushi and Yaichi Aoshima, “Public-private-partnership in the Japanese Water Business,” *Annual Report of the Institute of Political Science & Economics, Musashino University*, No. 9, July 2014, pp. 75-101

Fujiwara, Masatoshi and Yaichi Aoshima, “Business Case / Toyobo: Development of Reverse Osmosis Membrane and its Business,” *Hitotsubashi Business Review*, Vol. 62, No. 1, June 2014, pp. 102-119

1.3. Others

Aoshima, Yaichi, “Japanese People Have Regained Confidence,” *JETRO Switzerland Newsletter*, Issue 78, October 2015, pp. 1-2

(In Japanese)

Aoshima, Yaichi, “Keizai Kyōshitsu: What Does a Slump in Electronics Business Reflect ? (2): Problems Derived from an Inflexible Product Boundary” *Nihon Keizai Shimbun*, March 15, 2016, P. 28

Aoshima, Yaichi, “Issues in Environmental Protection and Energy Supply from a Perspective of Management Scholar (1)-(6),” *Shosainomado* (The Window of Author’s Study), Yuhikaku, Issue September 2014 (No. 635)-Issue July 2015 (No. 640)

2. Unpublished Work

2.1. Working Papers

Matsushima, Kazunari and Yaichi Aoshima, “The Spillover Effects of Publicly Supported Private R&D: Analysis of NEDO Follow-up Survey Data,” IIR Working Paper WP#14-04, June 2014

(In Japanese)

Aoshima, Yaichi and Kenji Asano, “Inefficiency Caused by Feed-in Tariff: An Analysis on Diffusion of the Japanese Roof-top PV System,” IIR Working Paper WP#15-10, March 2015

Asano, Kenji and Yaichi Aoshima, “An Effect of Governmental Subsidy on Price of the Roof-top PV System,” IIR Working Paper WP#15-09, March 2015

Fujiwara, Masatoshi and Yaichi Aoshima, “Nitto Denko Corporation: Development of Reverse Osmosis Membrane and its Application,” IIR Case Study CASE#14-02, October 2014

3. Conference Papers, Presentations

Aoshima, Yaichi, “Forces that Distort Renewable Energy Policies: An Analysis of the Policy Impact on the Rooftop PV Market in Japan,” presented at the NUS-IIR Workshop on Innovation 2015, National University of Singapore, September 11, 2015, Singapore

Matsushima, Kazunari and Yaichi Aoshima, “The Spillover Effects of Publicly Supported Private R&D: An Analysis of NEDO Follow-up Survey Data,” presented at the 5th Asia Pacific Innovation Conference, November 27, 2014, Sydney, Australia

(In Japanese)

Aoshima, Yaichi, “Did Japanese Companies Really Revive?: Raising a Question,” presented at the Hitotsubashi University’s 13th Kansai Academia Symposium, “Did Japanese Companies Really Revive?,” February 20, 2016, Osaka

Aoshima, Yaichi, “A Potential of Geothermal Heat Pump,” presented at the 10th Geo-Heat Promotion Association of Japan Symposium, February 20, 2015, Tokyo

Aoshima, Yaichi, “Management and Innovation Required for Implementing Growth Strategy,” the 6th Tokyo Institute of Technology and Hitotsubashi University Joint Traveling Seminar, December 7, 2014, Aichi (Keynote Speech)

Aoshima, Yaichi and Hiromi Kubota, “Economy of Small-scale Geothermal Power Plant Using Hot Springs,” presented at Annual Meeting of the Japan Institute of Energy, July 19, 2014, Fukuoka

Kubota, Hiromi and Yaichi Aoshima, “Social Acceptance of Small-scale Geothermal Power Plant Using Hot Springs,” presented at Annual Meeting of the Japan Institute of Energy, July 19, 2014, Fukuoka

Aoshima, Yaichi, “Promoting Right Management and Innovation with Uncertainty,” the 1st Symposium on MOT and Innovation, hosted by Japan Techno-Economics Society, June 10, 2014, Tokyo (Special Lecture)



Manabu Eto

■ Education

- 2008 Ph.D. (Engineering), Tohoku University
- 1985 M.E. (Engineering Science), Osaka University
- 1983 B.E. (Engineering Science), Osaka University

■ Professional Positions

- 2016~ Professor, Institute of Innovation Research, Hitotsubashi University
- 2013 Adjunct Professor, Institute of Innovation Research, Hitotsubashi University
- 2011 Director General, JETRO Geneva (~July 2013)
- 2008 Professor, Institute of Innovation Research, Hitotsubashi University (~March 2011)
- 2006~ Consulting Fellow, Research Institute of Economy, Trade and Industry (RIETI)
- 2006 Director, Conformity Assessment Division, Industry Science and Technology Policy and Environment Bureau, Ministry of Economy, Trade and Industry (METI) (~2008)
- 2004 National Institute of Advanced Industrial Science and Technology (~2005)
- 2000 Delegation of Japan to the OECD (~2004)
- 1995 Assistant Professor, University of Tsukuba (~1997)
- 1994 Visiting Scholar, University of New Mexico (~1995)
- 1989 Science and Technology Agency (~1990)
- 1985 Ministry of International Trade and Industry (MITI)

■ Research Achievements

1. Publications

1.1. Book

(In Japanese)

Eto, Manabu and Harumi Iwai, *The Secret of Innovation in Switzerland: Learning from the World's Most Competitive Economy*, Tokyo: Japan External Trade Organization (JETRO), July 2015, 248 pages

1.2. Articles and Chapters in Books

(In Japanese)

Eto, Manabu, "Should Change the Essential Patent Business: Use Patents in Cheap is More Important Than License Fee," *Hitotsubashi Business Review*, Vol. 63, No. 4, March 2016, pp. 92-106

Eto, Manabu, "Themes: What Has Changed in EU?: Standardization Activities (Standards and Conformity Assessment)," in Maeda, Atsuhiko and Ryo Koba, eds., *What Impact did the European Debt Crisis Have on European Economy?: From the Perspective of Industries and Companies*, Chap. 2, Tokyo: Japan External Trade Organization (JETRO), February 2015, pp. 68-76

Eto, Manabu, "Swiss Innovation Power Based on Human Skill Management," *Hitotsubashi Business Review*, Vol. 62, No. 3, December 2014, pp. 6-21

Eto, Manabu, “Standardization Activities,” in the Japan Society of Mechanical Engineers, ed., *Introduction to Law and Technology: Connecting Law and Technology for a Safe and Secure Society*, Tokyo: Maruzen Publishing Co., Ltd., October 2014, pp. 100-112

2. Unpublished Work

2.1. Educational Material

(In Japanese)

“Introduction to Standardization and Practice (Educational Material for Standardization), Industrial Science and Technology Policy and Environment Bureau, Technical Regulations, Standards and Conformity Assessment Unit, Editor, Single Author (Chap. 2, 3 and 8), Co-authored (Chap. 1), January 2016

2.2. Research Report

(In Japanese)

Eto, Manabu, “Report on the Meetings for the Textbook on Standardization” commissioned by METI and published by Mitsubishi Research Institute, Inc. Contribution of Chap. 1, 2 and 4, March 2015

3. Conference Papers, Presentations

Eto, Manabu, “The Secret of Innovation in Switzerland,” presented at the NUS-IIR Workshop on Innovation 2015, coorganized by IIR, September 11, 2015, National University of Singapore, Singapore

(In Japanese)

Eto, Manabu, “Strategies for Intellectual Property and Standardization of CNF,” presented at the 96th Annual Meeting of the Chemical Society of Japan, March 25, 2016, Kyotanabe Campus, Doshisha University

Eto, Manabu, “Trends in Research on Standardization and Change in its Subjects,” presented at the 30th Annual Meeting of the Japan Society for Research Policy and Innovation Management, October 11, 2015, Nishiwaseda Campus, Waseda University, Tokyo

Eto, Manabu “Interactions of Intellectual Property Right and Standardization: Considering SEP Issues: What Is Patent Policy?,” presented at the 12th Annual Meeting of the Intellectual Property Association of Japan, November 29, 2014, Tokyo University of Science

Eto, Manabu, “Second Report on the Secret of Innovation in Switzerland,” presented at the 29th Annual Meeting of the Japan Society for Science Policy and Research Management, October 19, 2014, Biwako-Kusatsu Campus, Ritsumeikan University



Masaru Karube

■ Education

- 1998 Doctor of Commerce, Hitotsubashi University
- 1995 Master of Commerce, Hitotsubashi University
- 1993 B.A. (Commerce), Hitotsubashi University

■ Professional Positions

- 2006 Fulbright Visiting Scholar, Bryn Mawr College / The Wharton School of the University of Pennsylvania (~2007)
- 2002~ Associate Professor, Institute of Innovation Research, Hitotsubashi University
- 1998 Lecturer, Faculty of Business Administration, Tokyo Keizai University

■ Research Achievements

1. Publications

1.1. Articles and Chapters in Books

(In Japanese)

Nobeoka, Kentaro and Masaru Karube, “Difficulties in Creating Value at Japanese Firms Due to Managerial Complexity,” in Fujimoto, Takahiro, Jyunjiro Shintaku and Yaichi Aoshima, eds., *Uncovering the Real Potential of Japanese Manufacturing*, Tokyo: Toyo Keizai, February 2015, pp. 156-179

Karube, Masaru, “Strategic Orientation and Strategic Planning Process in the Business Units among Japanese Firms,” *Hitotsubashi Business Review*, Vol. 62, No. 1, June 2014, pp. 38-57

2. Conference Papers, Presentations

Golsorkhi, Damon, Israel Drori and Masaru Karube, “Making Utopias Real: Social Innovation, Movements and Change,” presented at the 32nd EGOS Colloquium, July 7-9, 2016, Naples, Italy

Fujiwara, Masatoshi, Masato Sasaki, Yuki Tsuboyama, Tsuyoshi Numagami, Toshihiko Kato and Masaru Karube, “The Profit Impact of Strategic Orientation and Middle Management Influence,” presented at the International Conference on Organization and Management (ICOM) 2015, November 23, 2015, Abu Dhabi, UAE

Karube, Masaru, Hironori Fukukawa and Israel Drori, “Post-Merger Integration: Who Owns Interorganizational Relationships? – Post-Merging Integration through Client Sharing between Accounting Firms,” presented at the NUS-IIR Workshop on Innovation 2015, September 11, 2015, National University of Singapore, Singapore

Karube, Masaru, Hironori Fukukawa and Israel Drori, “Who Owns Client-Professional Relationships-the Merging Firm or the Merged Firm?: Post-Merger Integration through Client Sharing between Audit Firms,” presented at the Society for the Advancement of Socio-Economics (SASE), July 3, 2015, the London School of Economics & Political Science, UK

Karube, Masaru, “Overcoming the Tension between International and Domestic Pressures: Responses of Audit Firms in Japan,” presented at the 3rd Bi-annual Conference of the Israeli Association for Japanese Studies (IAJS), May 12, 2015, Tel Aviv University, Israel

Karube, Masaru, Israel Drori and Hironori Fukukawa, “Institutional Logics and Merger Strategies: Historical Account of the Japanese Audit Industry,” presented at the 30th EGOS (European Group of Organizational Studies) Annual Colloquium, July 3, 2014, Rotterdam School of Management, Erasmus University, the Netherlands

Karube, Masaru, Israel Drori and Hironori Fukukawa, “Institutional Logics and Merger Strategies: Historical Account of the Japanese Audit Industry,” presented at the 3rd European Theory Development Workshop,” June 27, 2014, VU University Amsterdam, the Netherlands



Taiju Kitano

■ Education

- 2011 Ph.D. (Economics), Graduate School of Economics, The University of Tokyo
- 2004 M.A., Graduate School of Economics, The University of Tokyo
- 2002 B.A., Department of Economics, Sophia University

■ Professional Positions

- 2016~ Associate Professor, Graduate School of International Management, Aoyama Gakuin University
- 2013 Adjunct Associate Professor, Institute of Innovation Research, Hitotsubashi University
- 2009 Assistant Professor, National Graduate Institute for Policy Studies
- 2009 Lecturer, National Graduate Institute for Policy Studies

■ Research Achievements

1. Unpublished Work

1.1. Working Paper

(In Japanese)

Kitano, Taiju, “Economic Analyses of Automobile Market: Demand for Differentiated Products and the Policy Evaluation in Oligopolistic Competition Markets,” the Japan Research Center for Transport Policy Series A-606, July 2014

1.2. Research Report

(In Japanese)

Kitano, Taiju, “Econometric Analyses of Environmental Policies: Quantitative Evaluation of Tax Reduction and Subsidy in Automobile Market,” Reports for the Study Group on Efficient Policy Tools, Ministry of Finance, Policy Research Institute, August 2014, pp. 141-156

2. Conference Papers, Presentations

Kitano, Taiju, “Disguised Protectionism? Environmental Policy in Japanese Car Market,” presented at ETSG 2015 Paris 7th Annual Conference, September 12, 2015, University of Paris 1, France

(In Japanese)

Kitano, Taiju, “Tax Incentives for Green Cars: Evaluation at a Car Variant Level,” presented at Urban Economics Workshop, the University of Tokyo, January 8, 2016, Tokyo

Kitano, Taiju, “Disguised Protectionism? Environmental Policy in Japanese Car Market,” presented at Research Seminar in Institute of Economic and Social Research, December 9, 2015, Asia University, Tokyo

Kitano, Taiju, "Tax Incentives for Green Cars: Evaluation at a Car Variant Level," presented at Economic Theory and Policy Workshop, Aoyama Gakuin University, November 21, 2015, Tokyo

Kitano, Taiju, "Tax Incentives for Green Cars: Evaluation at a Car Variant Level," presented at Workshop for Globalization and Japanese Economy, October 6, 2015, Prefectural University of Kumamoto

Kitano, Taiju, "Demand Estimation Based on Discrete Choice Models," Faculty of Economics, Osaka University, August 20, 2015 (Special Lecture)

Kitano, Taiju, "Tax Incentives for Green Cars: Evaluation at a Car Variant Level," RIETI, July 21, 2015, Tokyo

Kitano, Taiju, "Tax Incentives for Fuel Efficient Cars: Evaluation at a Car Variant Level," Faculty of Economics, Sophia University, May 29, 2015



Joel Malen

■ Education

- 2013 Ph.D. (Business Administration), University of Minnesota-Carlson School of Management
- 2006 M.A. (International Relations), Johns Hopkins University
- 1999 B.A. (Economics), University of Rochester

■ Professional Positions

- 2013~ Assistant Professor, Institute of Innovation Research, Hitotsubashi University
- 2006 Business and Policy Research Associate, Itochu International Inc., Washington, DC (~2008)

■ Research Achievements

1. Publications

1.1. Articles and Chapters in Books

Malen, Joel, “Motivating and Enabling Firm Innovation Effort: Integrating Penrosian and Behavioral Theory Perspectives on Slack Resources,” *Hitotsubashi Journal of Commerce and Management*, Vol. 49, No. 1, October 2015, pp. 37-54

2. Conference Papers, Presentations

Malen, Joel, “Environmental Regulation and MNE Expansion: The Moderating Role of Pollution Reduction Capabilities and Firm Multinationality on International Location Choice,” presented at the AIB (Academy of International Business) 2016 Annual Meeting, 28 June, 2016, New Orleans, USA (Finalist for 2016 AIB Best Young Scholar Award)

Malen, Joel, “Environmental Regulation and MNE Expansion: The Moderating Role of Pollution Reduction Capabilities and Firm Multinationality on International Location Choice,” presented at the Group for Research on Organizations and the Natural Environment 2016 Research Conference, May 26, 2016, Hamburg, Germany

Malen, Joel, “Environmental Regulation and MNE Expansion: The Moderating Role of Pollution Reduction Capabilities and Firm Multinationality on International Location Choice,” presented at the Alliance for Research on Corporate Sustainability 2016 Conference, May 19, 2016, Boulder, USA

Malen, Joel, “How Do National Corporate Governance Institutions Affect Slack-Based Innovation Effort in Firms,” presented at the AIB (Academy of International Business) 2015 Annual Meeting, 29 June, 2015, Bengaluru, India (Finalist for 2015 AIB Best Paper Award)

Malen, Joel, “Organizational Slack, National Corporate Governance Institutions and Firm Innovation Efforts around the World,” presented at Waseda University Organizational and Financial Economics Seminar, June 22, 2015, Tokyo, Japan

Malen, Joel, "Putting the Brakes on Environmental Technology Breakthroughs? Firm R&D Strategies for the Development of Environmental Technologies," presented at the 2015 Sustainability, Ethics and Entrepreneurship Conference, May 1, 2015, Denver, USA

Malen, Joel, "Country- and Firm-Level Determinants of Legal Internationalization by Emerging-Market Firms," presented at the Mitsubishi UFJ Foundation International Conference, August 30, 2014, Kanagawa

Malen, Joel, "Organizational Slack, National Corporate Governance Institutions and Firm Innovation Efforts around the World," presented at the Academy of Management Annual Meeting, August 5, 2014, Philadelphia, USA

Malen, Joel, "Organizational Slack, National Corporate Governance Institutions and Firm Innovation Efforts around the World," presented at the Society for Advancement of Socio-Economics Annual Conference, July 10, 2014, Chicago, USA



Sadao Nagaoka

■ Education

- 1990 Ph.D. (Economics), Massachusetts Institute of Technology
- 1980 M.S. (Management), Massachusetts Institute of Technology
- 1975 B.E. (Engineering), The University of Tokyo

■ Professional Positions

- 2015~ Professor, Faculty of Economics, Tokyo Keizai University
- 2004 Director, Institute of Innovation Research, Hitotsubashi University (~2008)
- 1997 Professor, Institute of Innovation Research, Hitotsubashi University (~2015)
- 1996 Professor, Institute of Business Research, Hitotsubashi University
- 1992 Professor, Faculty of Economics, Seikei University
- 1990 Director of the Office for Russia and Eastern Europe, the Ministry of International Trade and Industry of Japan
- 1986 Economist, the World Bank (~1990)
- 1975 The Ministry of International Trade and Industry of Japan (~1992)

■ Research Achievements

1. Publications

1.1. Articles and Chapters in Books

- Yamauchi, Isamu and Sadao Nagaoka, “An Economic Analysis of Deferred Examination System: Evidence from a Policy Reform in Japan,” *International Journal of Industrial Organization*, Vol. 39, March 2015, pp. 19-28 (refereed)
- Tsukada, Naotoshi and Sadao Nagaoka, “Determinants of International Research Collaboration: Evidence from International Co-inventions in Asia and Major OECD Countries,” *Asian Economic Policy Review*, Vol. 10, Issue 1, January 2015, pp. 96-119 (refereed)
- Igami, Masatsura, Sadao Nagaoka and John Walsh, “Contribution of Postdoctoral Fellows to Fast-moving and Competitive Scientific Research,” *Journal of Technology Transfer*, published online: August 27, 2014 (refereed)

2. Unpublished Work

2.1. Working Papers

(In Japanese)

- Honjo, Yuji and Sadao Nagaoka, “Initial Public Offering and Financing of Biotechnology Start-ups: Evidence from Japan,” IIR Working Paper WP#15-20, September 2015
- Nagaoka, Sadao, Junichi Nishimura and Koichi Genda, “Clinical Research and Science: Findings from a Project-level Survey on Pharmaceutical Innovations and Their Economic Impacts in Japan (part II),” IIR Working Paper WP#15-17, August 2015

- Nagaoka, Sadao, Junichi Nishimura and Koichi Genda, “Drug Discovery and Science: Findings from a Project-level Survey on Pharmaceutical Innovations and Their Economic Impacts in Japan (part I),” IIR Working Paper WP#15-16, August 2015
- Okada, Yoshimi and Sadao Nagaoka, “Effects of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Pre-grant Publication System Introduced in the United States,” IIR Working Paper WP#15-12, July 2015
- Nagaoka, Sadao and Yasushi Hara, “A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Compactin (JST-N-CASE05),” IIR Working Paper WP#15-08, March 2015
- Hara, Yasushi and Sadao Nagaoka, “A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Mevalotin (JST-N-CASE06),” IIR Working Paper WP#15-06, March 2015
- Honjo, Yuji, Sadao Nagaoka, Kenta Nakamura and Yumi Shimizu, “IPO and Fund raising by Bio Startups in Japan,” IIR Working Paper WP#15-01, January 2015
- Hara, Yasushi, Yoshiyuki Ohsugi and Sadao Nagaoka, “A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Actemra (JST-N-CASE01),” IIR Working Paper WP#14-07, October 2014
- Nagaoka, Sadao and Hideo Owan, “Incentive Design for Inventors: Theory and Empirical Evidence,” RIETI (Research Institute of Economy, Trade and Industry) Discussion Paper 14-J-044, September 2014
- Nagaoka, Sadao and Isamu Yamauchi, “Scientific Sources of Corporate Inventions in Japan: Evidence from an Inventor Survey,” RIETI Discussion Paper 14-J-038, August 2014
- Yamauchi, Isamu and Sadao Nagaoka, “An Economic Analysis of Deferred Examination System: Evidence from Policy Reforms in Japan,” IIR Working Paper WP#14-05, June 2014

2.2. Research Reports

(In Japanese)

A Project Report on the Research on “Science Sources of Innovation and its Economic Effects” funded by Research Institute of Science and Technology for Society, Japan Science and Technology Agency
http://www.ristex.jp/examin/stipolicy/pdf/20141215_04.pdf

3. Conference Papers, Presentations

Nagaoka, Sadao, “Use of Grace Period and its Impact on Knowledge Flow: Evidence from Japan,” presented at the Workshop on the Disclosure Function of the Patent System, organized by IIR, March 7, 2015, Tokyo

Nishimura, Junichi and Sadao Nagaoka, “Private and Social Performance of Science Intensive Drugs: Evidence from New Drugs Launched in Japan,” presented at the 5th Asia Pacific Innovation Conference, November 28, 2014, Sydney, Australia

Nagaoka Sadao, “Grace Period: Experience in Japan,” presented at the Workshop on the Economic Effects of Introducing a Grace Period in Europe, European Patent Office, November 26, 2014, Munich, Germany

Nagaoka, Sadao and Yoichiro Nishimura, “Use of Grace Period and its Impact on Knowledge Flow: Evidence from Japan,” the IP Statistics for Decision Makers, organized by OECD and Japan Patent Office, November 18, 2014, Tokyo (Keynote speech)

Okada, Yoshimi and Sadao Nagaoka, “Effect of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States,” presented at the IP Statistics for Decision Makers, organized by OECD and Japan Patent Office, November 18, 2014, Tokyo

Nagaoka Sadao and Yoichiro Nishimura, “Complementarity, Fragmentation, and the Effects of Patent Thickets,” presented at the European Economic Association, August 25-29, 2014, Toulouse, France

Nagaoka, Sadao and Kenta Nakamura, “Early Clarification of Patent Rights and Innovation: Evidence from Post-grant Opposition System in Japan,” presented at the International Workshop on Patent System Design for Innovation, organized by IIR, August 1, 2014, Tokyo

Nagaoka, Sadao, “Challenges for Japanese Innovation System,” Korean Society on Economics and Management of Technology, June 26 & 27, 2014, Jeju Island, Korea (Keynote speech)

(In Japanese)

Nagaoka Sadao, “Science Sources of Innovation: Initial Findings from a JST Project,” presented at IIR Forum, February 19, 2015, Hitotsubashi University

Nagaoka Sadao, “Patent Value as Assessed from Inventor Survey,” presented at INFOPRO 2014, hosted by Japan Science and Technology Agency and Information Science and Technology Association, Japan (INFOSTA), December 5, 2014, Tokyo



Makoto Nirei

■ Education

- 2002 Ph.D. (Economics), University of Chicago
- 1996 M.A. (Economics), The University of Tokyo
- 1994 B.A. (Economics), The University of Tokyo

■ Professional Positions

- 2015~ Chief Economist, Policy Research Institute, Ministry of Finance
- 2008 Associate Professor, Institute of Innovation Research, Hitotsubashi University (~March 2015)
- 2006 Assistant Professor, Department of Economics, Carleton University (~2008)
- 2004 Assistant Professor, Department of Economics, Utah State University (~2006)
- 2001 Postdoctoral Fellow, Santa Fe Institute (~2004)

■ Research Achievements

1. Publications

1.1. Articles and Chapters in Books

Nirei, Makoto, Julián Caballero, and Vladyslav Sushko, “Bank Capital Shock Propagation via Syndicated Interconnectedness,” *Computational Economics*, DOI:10.1007/s10614-015-9493-8, January 2015

2. Unpublished Work

2.1. Working Papers

Nirei, Makoto and Shuhei Aoki, “Pareto Distribution of Income in Neoclassical Growth Models,” SSRN (Social Science Research Network) Working Paper, March 2015 (published in *Review of Economic Dynamics*, 20:25-42, 2016)

Aoki, Shuhei and Makoto Nirei, “Zipf’s Law, Pareto’s Law, and the Evolution of Top Incomes in the U.S.,” SSRN Working Paper, February 2015 (forthcoming in *American Economic Journal: Macroeconomics*)

Nirei, Makoto, Sanjib Sarker and Kazufumi Yamana, “Time-Varying Employment Risks, Consumption Composition, and Fiscal Policy,” SSRN Working Paper, January 2015 (published in *Economics Bulletin*, 36(2):802-812, 2016)

Nirei, Makoto and Tsutomu Watanabe, “Beauty Contests and Fat Tails in Financial Markets,” SSRN Working Paper, June 2014

Carvalho, Vasco M, Makoto Nirei and Yukiko Saito, “Supply Chain Disruptions: Evidence from the Great East Japan Earthquake,” RIETI Discussion Paper 14-E-035, June 2014

3. Conference Papers, Presentations

Guiso, Luigi, Chaoqun Lai, and Makoto Nirei, “Detecting Propagation Effects by Observing Aggregate Distributions: The Case of Lumpy Investments,” March 28, 2015, Seoul, Korea (forthcoming in *Japanese Economic Review* entitled as “An Empirical Study of Interaction-based Aggregate Investment Fluctuations”)

Nirei, Makoto, “Structural Linkage between Academic Fields and Industrial Classification: Analysis of Non-Patent Citations,” the 5th Asia Pacific Innovation Conference, November 29, 2014, Sydney, Australia

Nirei, Makoto and Shuhei Aoki, “Pareto Distribution of Income in Neoclassical Growth Models,” Macroeconomics Workshop, November 20, 2014, the University of Tokyo

Yamana, Kazufumi, Makoto Nirei and Sanjib Sarker, “A General Equilibrium Analysis of the Consumption Response to Active Labor Market Policy,” the Autumn Meeting of the Japanese Economic Association, October 11, 2014, Fukuoka (poster session, presented by Yamana)

Nirei, Makoto, Julian Caballero and Vladyslav Sushko, “Bank Capital Shock Propagation via Syndicated Interconnectedness,” Systemic Risk and Financial Regulation Conference, organized by the Banque de France, the ACPR, and the Society for Financial Econometrics, July 3, 2014, Paris, France



Toshihiro Nishiguchi

■ Education

- 1990 D.Phil. (Sociology), University of Oxford
- 1981 M.Sc., Imperial College, University of London
- 1977 B.A., Waseda University

■ Professional Positions

- 2016 Fall
Academic Visitor, Nissan Institute of Japanese Studies, the University of Oxford
- 2016~ Adjunct Professor, Institute of Innovation Research, Hitotsubashi University
- 2016 Professor Emeritus, Hitotsubashi University
- 2012 Fulbright Visiting Scholar, the Massachusetts Institute of Technology, the Sloan School of Management (~2013)
- 2008~ Senior Research Fellow, Policy Research Institute, Ministry of Finance
- 2007 Part-time Director, Defense Procurement Structure Improvement Foundation (~2012)
- 2004 Fall; 2005 Summer
Visiting Scholar, Center for International Studies, the Massachusetts Institute of Technology
- 2002 Summer; 2003 Summer
Visiting Senior Research Scholar, School of Public Affairs, Center for Public Policy and Private Enterprise, the University of Maryland
- 2001 Summer
Academic Visitor, The Judge Institute of Management, the University of Cambridge
- 1997 Professor, Institute of Innovation Research, Hitotsubashi University
- 1994 Associate Professor, Institute of Business Research, Hitotsubashi University
- 1991 Assistant Professor, The Wharton School, the University of Pennsylvania
- 1990 Post-Doctoral Fellow, INSEAD (European Institute of Business Administration)
- 1986 Research Fellow, International Motor Vehicle Program, the Massachusetts Institute of Technology (~1989)

■ Research Achievements

1. Publications

1.1. Books

(In Japanese)

Nishiguchi, Toshihiro and Motoko Tsujita, *Community Capital: The Prosperity and Limits of China's Wenzhou Entrepreneurial Networks*, Tokyo: Yuhikaku, July 2016, 438 pages

1.2. Articles and Chapters in Books

(In Japanese)

Nishiguchi, Toshihiro and Motoko Tsujita, "Exploring the Secrets of Transnational Startups: Border-crossing Strategies of China's Wenzhou Entrepreneurs Drawing on Community Capital," in Kanamitsu, Jyun, ed., *Social Capital and Management*, Tokyo: Minervashobo, Chap. 5, forthcoming

Nishiguchi, Toshihiro and Motoko Tsujita, "Can the Wenzhou Model That Has Led Spontaneous Capitalism in China Outgrow Itself?: The Prosperity and Limits of Wenzhou Firms' Community Capital," *Hitotsubashi Business Review*, Vol. 63, No. 3, December 2015, pp. 18-33

1.3. Others

(In Japanese)

Nishiguchi, Toshihiro, "The Processes and Performances of New Chinese Expatriots' Community Formation in North America with Particular Reference to the Wenzhounese Community," in the Univers Foundation ed., *Research Report on the Exploration of Affluent Great Age Societies*, No. 22, July 2014, pp. 1-10

Nishiguchi, Toshihiro, "Community Capital," *Sekai Keizai Hyoron IMPACT* (World Economic Review IMPACT), July 14, 2014, [www/sekaikeizai.or.jp/active/article/140714nishiguchi_toshi.html](http://www.sekaikeizai.or.jp/active/article/140714nishiguchi_toshi.html)

(Book Review)

Nishiguchi, Toshihiro, "From My Bookshelf: The Earthly *Bible* / Tocqueville, Alexis de, *De la Democratie en Amerique*," *Hitotsubashi Business Review*, Vol. 63, No. 2, September 2015, p. 89

2. Unpublished Work

2.1. Working Papers

(In Japanese)

Nishiguchi, Toshihiro and Motoko Tsujita, "The Changing Networks of the Wenzhou Apparel Industry: Descriptive Features and Cluster Analysis," IIR Working Paper WP#16-02, March 2016

Nishiguchi, Toshihiro and Motoko Tsujita, "Exploring the Secrets of Transnational Startups: Border-crossing Strategies of China's Wenzhou Entrepreneurs Drawing on Community Capital," IIR Working Paper WP#15-05, January 2015

3. Conference Papers, Presentations

Nishiguchi, Toshihiro, "Community Capital and Commensurate Trust: The Prosperity and Limits of China's Wenzhou Entrepreneurial Networks," presented at JAFEE (Japan Association for Evolutionary Economics) International Conference on Socio-economic Systems with ICT and Networks, March 26, 2016, the University of Tokyo

(In Japanese)

Nishiguchi, Toshihiro, "A Final Report: Problems of Social Network Research," presented at IIR Forum, 23 March, 2016, Kunitachi Campus, Hitotsubashi University

- Nishiguchi, Toshihiro, "Commensurate Trust: The Exclusionary Community Norms of China's Wenzhou Entrepreneurial Networks," presented at the 2016 Annual Conference of the Japanese Academic Association for Organizational Science, 5 December, 2015, Toyonaka Campus, Osaka University, Osaka
- Nishiguchi, Toshihiro, "Community Capital and Commensurate Trust: A Driving Force of China's Wenzhou Entrepreneurial Networks," presented at a Research Presentations Session of the 2015 Annual Meeting of the Japan Academy of International Business Studies (JAIBS), October 25, 2015, Kinuta Campus, Nihon University, Tokyo
- Nishiguchi, Toshihiro, "Community Capital and Commensurate Trust: The Prosperity and Limits of China's Wenzhou Entrepreneurial Networks," the 20th Autumn Conference of the Japan Association for Evolutionary Economics, September 20, 2015, the University of Tokyo (Invited Keynote Speech)
- Nishiguchi, Toshihiro, "Community Capital: The Prosperity and Limits of China's Wenzhou Entrepreneurial Networks," presented at a Research Presentations Session of the 2015 Annual Meeting of the Academic Association for Organizational Science, June 21, 2015, Kunitachi Campus, Hitotsubashi University
- Nishiguchi, Toshihiro, "The Structure of Prosperity Seen from Community Capital and Network Models: A Road to Success of China's Wenzhou Entrepreneurs," presented at the 106th Lecture on Economics and Current Events, organized by the Japan Industrial Management and Accounting Institute Foundation, August 5, 2014, Tokyo



Kentaro Nobeoka

■ Education

- 2001 Ph.D. (Business Administration), Kobe University
- 1993 Ph.D. (Business Administration), Sloan School of Management, Massachusetts Institute of Technology
- 1988 M.B.A., Sloan School of Management, Massachusetts Institute of Technology
- 1981 B.S. (Engineering), Osaka University

■ Professional Positions

- 2012~ Director, Institute of Innovation Research, Hitotsubashi University
- 2008~ Professor, Institute of Innovation Research, Hitotsubashi University
- 1999 Professor, Research Institute for Economics & Business Administration, Kobe University (~2008)
- 1994 Associate Professor, Research Institute for Economics & Business Administration, Kobe University (~1999)
- 1981 Mazda Motor Corporation (~1989)

■ Research Achievements

1. Publications

1.1. Articles and Chapters in Books

(In Japanese)

Nobeoka, Kentaro, “Importance of Intangible Customer Value,” in the Council for the Promotion of Innovation with KANSEI, ed., *FY2015 KANSEI Innovation Guidebook*, Hiroshima: Chugoku Regional Research Center, forthcoming.

Nobeoka, Kentaro, “Engineering and Value Creation,” *IE Review*, the Japan Institute of Industrial Engineering, Vol. 57, No. 2, May 2016, pp. 6-11

Nobeoka, Kentaro and Megumi Kimura, “Business Case / Matsuda: Matsuda Design ‘Car as ART’,” *Hitotsubashi Business Review*, Vol. 63, No. 4, March 2016, pp. 130-148

Nobeoka, Kentaro, Megumi Kimura and Atsushi Osanai, “Creation of Design Value: toward Integration of Design and Engineering,” *Hitotsubashi Business Review*, Vol. 62, No. 4, March 2015, pp. 6-21

Nobeoka, Kentaro and Masaru Karube, “Difficulties in Creating Value at Japanese Firms Due to Managerial Complexity,” in Fujimoto, Takahiro, Jyunjiro Shintaku and Yaichi Aoshima, eds., *Uncovering the Real Potential of Japanese Manufacturing*, Tokyo: Toyo Keizai, February 2015, Chap. 6, pp. 156-179

1.2. Others

(In Japanese)

Nobeoka, Kentaro, “Importance of Value Creation Management,” *Diamond Management Forum*, Winter 2016, pp. 28-31, forthcoming

- Nobeoka, Kentaro, "Domestic Jetliner, High Potential, Building Manufacturing Infrastructure," Imawoyomitoku (Interpreting Current Issues), *Nihon Keizai Shimbun*, February 14, 2016, p. 21
- Nobeoka, Kentaro, "Special Interview: Innovation Revitalizes Japan," *Financial forum*, Kyoto Sogo Keizai Kenkyujo, No. 109, August 2015, pp. 2-7
- Nobeoka, Kentaro, "Technology Management of Value Creation~ Management of Intangible Customer Value and Accumulated Knowledge Technologies," *PMAJ Journal*, Project Management Association of Japan (PMAJ), No. 52, April 2015, pp. 76-82
- Nobeoka, Kentaro, "How to Create Value that Customers Truly Appreciate: Creation of 'Intangible Customer Value' beyond Product Functions," *Gekkan Business Summit*, Vol. 29, No. 9, March 2015, pp. 14-15
- Nobeoka, Kentaro, "Design for Firm Performance," Imawoyomitoku (Interpreting Current Issues), *Nihon Keizai Shimbun*, December 14, 2014, p. 21
- Nobeoka, Kentaro, "'Technology Management of Value Creation' which Japanese Firms Must Master," *Journal of the Textile Machinery Society of Japan*, Vol. 67, No. 11, November 2014, pp. 649-654
- Nobeoka, Kentaro, "Inimitable Technology Management Capabilities for Value Creation," *Risk Management Today*, Association of Risk Management Japan, Vol. 87, November 2014, pp. 14-15
- Nobeoka, Kentaro, "Hit Seminar: Emotional Value for Subaru Fans," *Nikkei MJ*, August 4, 2014
- Nobeoka, Kentaro, "Conditions for Innovation (2) Emphasis on 'Customer Value' Rather than Market," Keizai Kyoshitsu (Economics Classroom), *Nihon Keizai Shimbun*, May 2, 2014, p. 27

2. Conference Papers, Presentations

- Nobeoka, Kentaro, "New Challenges for Innovation Management at Japanese Manufacturing Firms," ETM Seminar, Division of Engineering & Technology Management, National University of Singapore, September 12, 2015, Singapore (Keynote Speech)
- (In Japanese)
- Nobeoka, Kentaro, "Management of Value Creation: Intangible Customer Value and Core Technologies," the 68th Annual Conference of the Textile Machinery Society of Japan, June 5, 2016, Osaka (Special Lecture)
- Nobeoka, Kentaro, "The Way to Utilize Japanese Manufacturing Capabilities: Innovation for Differentiation and Customer Value Creation," presented at the 38th Kyushu IE Annual Meeting, organized by Kyushu IE Association, February 5, 2015, Fukuoka (Keynote Speech)

Nobeoka, Kentaro, “Necessity of Management of Value Creation,” Hitotsubashi University 5th Chubu Academia Symposium “Issues in Japanese-style Management: What Are People in Manufacturing Lacking?,” November 15, 2014, Aichi (Keynote Speech)

Nobeoka, Kentaro, “Theory of Value Creation Management: Strategies for Japanese Manufacturing Firms,” Japan Society for Research Policy and Innovation Management, Concurrent Session: International Issues, April 16, 2014, Tokyo Institute of Technology (Invited Speech)



Atsushi Ohyama

■ Education

- 2008 Ph.D. (Economics), State University of New York at Buffalo
- 2002 M.A. (Economics), University of Chicago
- 1999 M.A. (Economics), Graduate School of Economics, Keio University
- 1997 B.A., Department of Commerce, Yokohama City University

■ Professional Positions

- 2015 Associate Professor, Institute of Innovation Research, Hitotsubashi University
- 2010 Associate Professor, Graduate School of Economics and Business Administration, Hokkaido University
- 2009 Lecturer, School of Management, University of Illinois at Urbana-Champaign
- 2008 Post-doctorate Researcher, IGB, University of Illinois at Urbana-Champaign

■ Research Achievements

1. Publications

1.1. Articles and Chapters in Books

Ohyama, Atsushi, “Entrepreneurship and Job Relatedness of Human Capital,” *Economica*, Vol. 38, No. 328, December 2015, pp. 740-768 (refereed)

Braguinsky, Serguey, Atsushi Ohyama, Tetsuji Okazaki and Chad Syverson, “Acquisitions, Productivity, and Profitability: Evidence from the Japanese Cotton Spinning Industry,” *American Economic Review*, Vol. 105, No. 7, July 2015, pp. 2086-2119 (refereed)

2. Unpublished Work

2.1. Working Paper

Ohyama, Atsushi, “Measuring the Effects of Demand and Supply Factors on Service Sector Productivity,” RIETI Discussion Paper Series, 15-E-042, April 2015

3. Conference Papers, Presentations

(In Japanese)

Ohyama, Atsushi, “Acquisitions, Productivity, and Profitability: Evidence from the Japanese Cotton Spinning Industry,” presented at the Research Seminar for Regulation and Competition, June 18, 2015, Osaka

Ohyama, Atsushi, “Acquisitions, Productivity, and Profitability: Evidence from the Japanese Cotton Spinning Industry,” presented at the Hitotsubashi University ICS Workshop, May 28, 2015, Chiyoda Campus, Hitotsubashi University

Ohyama, Atsushi, “Acquisitions, Productivity, and Profitability: Evidence from the Japanese Cotton Spinning Industry,” presented at IIR Forum, coorganized by Hitotsubashi University Industry and Labor Workshop, April 28, 2015, Kunitachi Campus, Hitotsubashi University, Tokyo



Yoshimi Okada

■ Education

- 1993 M.S. (Physics), The University of Tokyo
- 1991 B.S. (Physics), The University of Tokyo

■ Professional Positions

- 2014~ Professor, Institute of Innovation Research, Hitotsubashi University
- 2013 Director of the Optical Control Subdivision, the Japan Patent Office
- 2009 Administrative Judge, Appeals Department, the Japan Patent Office
- 2007 Secretariat of Intellectual Property Strategy Headquarters, Cabinet Secretariat (engaged in revising the Intellectual Property Strategic Program)
- 2003 Administrative Affairs Division, the Japan Patent Office (engaged in planning “Patent Prosecution Highway” framework)
- 2001 Technology Research Division, the Japan Patent Office (engaged in IP policy planning)
- 1999 International Affairs Division, Japan Patent Office (engaged in cooperation project among Japan, Europe and United States)
- 1997 Patent Examiner (Liquid Crystal, LED, Laser Optical Fiber, Camera etc.)
Visiting Scholar, University of California, Santa Cruz
- 1993 The Japan Patent Office, Ministry of International Trade and Industry (MITI)

■ Research Achievements

1. Publications

1.1. Articles and Chapters in Books

(In Japanese)

Okada, Yoshimi, Sadao Nagaoka and Yusuke Naito, “Evaluation of Patents Obtained by Japanese Patentee in ‘The Lost Two Decades’,” *Hitotsubashi Business Review*, Vol. 63, No. 4, March 2016, pp. 72-91

Okada, Yoshimi, “Supreme Court’s Ruling on the Interpretation and Allowability of Product-by-process Claims,” *Tokkyo Kenkyu* (Patent Studies), National Center for Industrial Property Information and Training, No. 60, September 2015, pp. 43-65

2. Unpublished Work

2.1. Working Papers

Okada, Yoshimi and Sadao Nagaoka, “Global Spread of Pharmaceutical Patent Protections: Micro Evidence from the International Equivalents of the Drug Patents in Japan,” IIR Working Paper WP#16-07, July 2016

Okada, Yoshimi, Yusuke Naito and Sadao Nagaoka, “Claim Length as a Value Predictor of a Patent,” IIR Working Paper WP#16-04, April 2016

Okada, Yoshimi and Sadao Nagaoka, “Effects of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Pre-grant Publication System Introduced in the United States,” IIR Working Paper WP#15-12, July 2015

2.2. Research Report

(In Japanese)

Okada, Yoshimi, Sadao Nagaoka and Naotoshi Tsukada, “Impact of IPR Policy Change on the Firms in Life Science Area,” *Investigation Report on the Role of Japan’s Intellectual Property System in Economy*, Institute of Intellectual Property, Chap. 3, March 2016

3. Conference Papers, Presentations

Okada, Yoshimi, Yusuke Naito and Sadao Nagaoka, “Contribution of Patent Examination to Making the Patent Scope Consistent with the Invention: Evidence from Japan,” presented at the 11th Annual Conference of the EPIP Association 2016, September 3-5, 2016, Oxford, U.K.

Okada, Yoshimi, Yusuke Naito and Sadao Nagaoka, “Contribution of Patent Examination to Making the Patent Scope Consistent with the Invention: Evidence from Japan,” presented at the 43rd EARIE Conference, August 26-28, 2016, Lisbon, Portugal

Okada, Yoshimi, Yusuke Naito and Sadao Nagaoka, “Contribution of Patent Examination to Making the Patent Scope Consistent with the Invention: Evidence from Japan,” presented at the 2016 Asian Meeting of the Econometric Society (AMES2016), August 11-13, 2016, Kyoto, Japan

Okada, Yoshimi, Yusuke Naito and Sadao Nagaoka, “Claim Length as a Value Predictor and as an Outcome Measure of Patent Examination,” presented at the 6th Asia-Pacific Innovation Conference, November 20, 2015, Zhejiang University, China

Okada, Yoshimi, Yusuke Naito and Sadao Nagaoka, “Claim Length as a Value Predictor and as an Outcome Measure of Patent Examination,” presented at the IP Statistics for Decision Makers 2015 Conference, organized by European Patent Office and OECD, November 4, 2015, Vienna, Austria

Okada, Yoshimi and Sadao Nagaoka, “Effects of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impacts of Introducing Pre-Grant Publication System in the United States,” presented at the 10th Annual Conference of the EPIP (European Policy for Intellectual Property) Association, September 2, 2015, Glasgow, U.K.

Okada, Yoshimi and Sadao Nagaoka, “Effects of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impacts of Introducing Pre-Grant Publication System in the United States,” presented at the 42nd EARIE (European Association for Research in Industrial Economics) Annual Conference, August 30, 2015, Munich, Germany

Okada, Yoshimi, “Effects of Early Patent Disclosure on Knowledge: Evidence from the Impact of Introducing Pre-grant Publication System in the United States,” presented at the Workshop on the Disclosure Function of the Patent System, organized by IIR, March 7, 2015, Tokyo

Okada, Yoshimi, “Effect of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States,” presented at the 5th Asia Pacific Innovation Conference, November 29, 2014, Sydney, Australia

Okada, Yoshimi and Sadao Nagaoka, “Effect of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States,” presented at the IP Statistics for Decision Makers, organized by OECD and Japan Patent Office, November 18, 2014, Tokyo

Okada, Yoshimi, “Effect of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States,” presented at the Workshop on Knowledge, IPRs and Innovation, organized by IIR, November 16, 2014, Tokyo

Okada, Yoshimi, “Effect of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States,” presented at the International Workshop on Patent System Design for Innovation, organized by IIR, August 1, 2014, Tokyo

(In Japanese)

Okada, Yoshimi, Yusuke Naito and Sadao Nagaoka, “Contribution of Patent Examination to Making the Patent Scope Consistent with the Invention: Evidence from Japan,” presented at the 2016 Spring Meeting of the Japanese Economic Association, June 18, 2016, Nagoya University

Okada, Yoshimi, Sadao Nagaoka and Yusuke Naito, “Claim Length as a Value Predictor of Patents,” presented at the 13th Annual Meeting of the Intellectual Property Right Association of Japan, December 5, 2015, the University of Tokyo

Okada, Yoshimi and Sadao Nagaoka, “Effects of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States,” presented at the 2015 Spring Meeting of the Japanese Economic Association, May 23, 2015, Niigata University

Okada, Yoshimi, “Effect of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Impact of Introducing Pre-Grant Publication System in the United States,” presented at the 12th Annual Meeting of the Intellectual Property Right Association of Japan, November 30, 2014, Tokyo University of Science



Hiroshi Shimizu

■ Education

- 2007 Ph.D. (Economic History), London School of Economics and Political Science, University of London
- 2002 M.A. (History), Northwestern University
- 1999 M.A. (Commerce), Hitotsubashi University
- 1997 B.A. (Commerce), Chuo University

■ Professional Positions

- 2011~ Associate Professor, Institute of Innovation Research, Hitotsubashi University
- 2008 Assistant Professor, Institute of Innovation Research, Hitotsubashi University
- 2007 Postdoctoral Fellow, Department of Technology Management, Eindhoven University of Technology

■ Research Achievements

1. Publications

1.1. Books

(In Japanese)

Shimizu, Hiroshi, *Innovations in General Purpose Technology*, Tokyo: Yuhikaku, March 2016, 380 pages

Yonekura, Seiichiro and Hiroshi Shimizu, eds., *Open Innovation Management: Challenges for Japanese Firms*, Tokyo: Yuhikaku, March 2015, 326 pages

1.2. Articles and Chapters in Books

Murayama, Kota, Makoto Nirei and Hiroshi Shimizu, "Management of Science, Serendipity, and Research Performance: Evidence from a Survey of Scientists in Japan and the U.S.," *Research Policy*, Vol. 44, No. 4, May 2015, pp. 862-873 (refereed)

(In Japanese)

Shimizu, Hiroshi, "The 'New' New Value Creation Strategy: Thinking of Open Innovation (1)-(5)," *Hitotsubashi Business Review*, Vol. 63, No. 1-Vol. 64, No. 1, June 2015-June 2016

Yamaguchi, Shotaro and Hiroshi Shimizu, "Business Case / Olympus: Gastro and Fiber Scope Development," *Hitotsubashi Business Review*, Vol. 63, No. 2, September 2015, pp. 100-113

Shimizu, Hiroshi and Akihiko Suwa, "Open Innovation Does Not Work for Japanese Firms?," in Yonekura, Seiichiro and Hiroshi Shimizu, eds., *Open Innovation Management: Challenges for Japanese Firms*, Tokyo: Yuhikaku, March 2015, Chap. 2, pp. 35-54

Shimizu, Hiroshi, "Knowledge Management in Open Innovation: How to Manage Different Players?" *ibid.*, Chap. 5, pp. 111-138

Shimizu, Hiroshi, Tatsuya Hoshino, Hiroyuki Nakai and Marie Murakami, "Open Innovation beyond R&D," *ibid.*, Chap. 10, pp. 257-277

Shimizu, Hiroshi, "Business Case / Ajinomoto's Aminoindex: Collaboration and New Entry in Health Risk Analysis Services," *Hitotsubashi Business Review*, Vol. 62, No. 3, December 2014, pp. 144-158

Shimizu, Hiroshi, "Why Have Those Who Were Not the Favorite Succeeded?: Lessons from the Blue LEDs," *Hitotsubashi Business Review*, Vol. 62, No. 3, December 2014. pp. 94-99

Miura, Sayako and Hiroshi Shimizu, "Business Case / Panasonic: How to Grow a Cash Cow: Monolithic Dual Wavelength High Power Laser Diode of Panasonic," *Hitotsubashi Business Review*, Vol. 62, No. 2, September 2014, pp. 130-144

1.3. Others

(In Japanese)

Shimizu, Hiroshi, "Yasashii Keizaigaku Column: Innovation: Chap. 1: New Value Creation (1)-(10)," *Nihon Keizai Shimbun*, January 21-February 3, 2016,

Shimizu, Hiroshi, "Open Innovation and Japanese Firms Challenge," *Kagaku Kogyo* (Chemical Industry), Kagaku Kogyo Sha, Vol. 66, No. 2, February 2015, pp. 151-156

2. Unpublished Work

2.1. Working Paper

Shimizu, Hiroshi and Yusuke Hoshino, "Collaboration and Innovation Speed: Evidence from a Prize Data-Set, 1955-2010," IIR Working Paper WP#15-04, January 2015

Hori, Keisuke, Yusuke Hoshino and Hiroshi Shimizu, "Vectran: Development of High-Functionality Fiber and its Applications at Kuraray Co., Ltd.," IIR Working Paper WP#14-06, October 2014

3. Conference Papers, Presentations

Hori, Keisuke, Hiroshi Shimizu and Yusuke Hoshino, "Which Would You Prefer, Artisanal or Laboratory Made?: How Quantification Came into the Sake Brewery Industry," presented at the 6th Asia-Pacific Innovation Conference, November 20, 2015, Zhejiang University, China

Hoshino, Yusuke and Hiroshi Shimizu, "Ownership Structure and Technology Transfer: Multiple Cases of Super Fibers," presented at the 5th Asia Pacific Innovation Conference, November 28, 2014, University of Technology, Sydney, Australia



Seiichiro Yonekura

■ Education

- 1990 Ph.D. (History), Harvard Graduate School of Arts and Sciences
- 1981 M.A. (Japanese Business History), Graduate School of Social Sciences, Hitotsubashi University
- 1979 B.A. (Japanese Economic History), Faculty of Economics, Hitotsubashi University
- 1977 B.A. (Japanese History), Faculty of Social Sciences, Hitotsubashi University

■ Professional Positions

- 2015~ Academic Advisor, Center for Japanese Studies, University of Pretoria (South Africa)
- 2012 Academic Director, Center for Japanese Studies, Gordon Institute of Business Science, University of Pretoria (South Africa, ~March 2015)
- 2008 Director, Institute of Innovation Research, Hitotsubashi University (~March 2012)
- 2004 Spring
Visiting Professor, Institute du Management Bouygues, HEC (France)
- 2003 Co-president, Institute of Strategy, Sony Corporation (~2004)
- 2003 Spring
Visiting Professor, Institute du Management Bouygues, HEC (France)
- 2001 Fall
J.A. Valentine Visiting Professor, Department of Marketing, University of Otago (New Zealand)
- 1999 Director, Institute of Innovation Research, Hitotsubashi University (~2001)
- 1997~ Professor, Institute of Innovation Research, Hitotsubashi University
- 1995 Professor, Institute of Business Research, Hitotsubashi University
- 1992 Core Faculty of Global Leadership Program at the University of Michigan (An Executive Program for Action Learning) (~1995)
- 1988 Associate Professor, Institute of Business Research, Hitotsubashi University
- 1984 Assistant Professor, Institute of Business Research, Hitotsubashi University
- 1982 Senior Research Assistant, Institute of Business Research, Hitotsubashi University

■ Research Achievements

1. Publications

1.1. Books

(In Japanese)

Yonekura, Seiichiro, *Nimaine no Meishi*, Tokyo: Kodansha, May 2015, 192 pages

Yonekura, Seiichiro and Hiroshi Shimizu, eds., *Open Innovation Management: Challenges for Japanese Firms*, Tokyo: Yuhikaku, March 2015, 326 pages

1.2. Articles and Chapters in Books

Yonekura, Seiichiro, "The Samurai Company: Double Creative Response in Meiji Japan: The Case of Onoda Cement," *Hitotsubashi Journal of Commerce and Management*, Vol. 49, No.1, Oct. 2015, pp. 1-23

Yonekura, Seiichiro, “What Is Essential Is Invisible to the Eye: Industrial Policy as a Dynamic Interaction Process between Government and Firms — A Case of the Provisional Act for Promotion of Machinery Industry,” *Asian Research Policy*, Vol. 6, Issue 1, July 2015, pp. 1-27 (refereed)

(In Japanese)

Yonekura, Seiichiro, “Why Africa Now?: The Last Frontier, but the One Japan Is Going to Face for the First Time,” *Hitotsubashi Business Review*, Vol. 63, No. 1, June 2015, pp. 6-18

Yonekura, Seiichiro and Yusuke Hoshino, “What Is Open Innovation?” in Yonekura, Seiichiro and Hiroshi Shimizu, eds., *Open Innovation Management: Challenges for Japanese Firms*, Tokyo: Yuhikaku, March 2015, pp. 1-34

Yonekura, Seiichiro, “For the Sake of Customers and Innovation,” *ibid.*, Epilogue, pp. 279-293

Yonekura, Seiichiro, “Entrepreneurship in Business Community: Banjo Otsuka and the Postwar Japanese Management Perspective,” in Miyamoto, Matao, Tadao Kagono and Kigyoka Foramu, eds., *Kigyōkagaku no Susume* (Studies in Entrepreneurship: Theories and Cases), Tokyo: Yuhikaku, July 2014, pp. 304-325

1.3. Others

(In Japanese)

Yonekura, Seiichiro, “Lecture: The Continuous Challenge for Innovation and Cultivating Core Human Resources” in Ishii, Junzo, et al., eds., *Executive CHO no Chosen*, Nikkei Business Publications, Inc., March 2016. pp. 50-63

Yonekura, Seiichiro, “Managerial Revolution: Entrepreneurs as Innovation Implementers,” *Trends in the Sciences*, Japan Science Support Foundation, November 2015, pp. 66-69

Yonekura, Seiichiro, “Biodiversity and the Role of Economics,” *Green Age*, Japan Greenery Research and Development Center, September 2014 Issue, pp. 4-7

Yonekura, Seiichiro, “Izumo, Mitsuru,” *Britannica International Yearbook 2014*, April 2014, pp. 58-59

Yonekura, Seiichiro, “Elon Musk,” *ibid.*, April 2014, pp. 82-83

(Book Review)

“Review of Juroh Hashimoto, *Sengo Nihon Keizai no Seichou Kouzou: Kigyō System to Sangyō Seisaku no Bunseki* (The Structure of Postwar Japan’s Economic Growth: An Analysis of Enterprise Systems and Industrial Policy),” in Takeda, Haruhito, ed., *Micro-Performance During Postwar Japan’s High-Growth Era*, Springer: Singapore, August 2016, pp. 153-156

Woo, Jongwon and Rengo-RIALS, eds., *For Reconstructing the Japanese Kaizen Power of the Workplaces: From the Viewpoint of Voice and Efficiency / Japan Business History Review*, Vol. 50, No. 3, December 2015, pp. 52-54

2. Conference Papers, Presentations

Yonekura, Seiichiro, “The Hungarian and the Japanese Economic Operations and Performance,” Hungarian Economic Society’s Student Organization, the Budapest University of Technology and Economics, April 5th, 2016, Budapest (Invited Speech)

Yonekura, Seiichiro, “Innovation for the Post-nuclear Society,” presented at the 1st Asian Innovation Forum, August 26, 2015, Seoul, Korea

Yonekura, Seiichiro, “Digital Education Can Change the World,” the 1st International Conference on Digital Education, September 3, 2015, Dhaka University, Dhaka, Bangladesh (Keynote Speech)

Yonekura, Seiichiro, “International Business History,” the 29th Annual Research Meeting of the Japanese Orthopaedic Association, October 9th, 2014, Kagoshima (Invited Speech)

2. International Visiting Researchers — Apr. 2014~ Apr. 2016

Dumisani Magadlela

Programme Manager, Pan African Capacity Building Programme,
Development Bank of Southern Africa (DBSA)
January 29, 2016 - April 28, 2016

Michele Ruiters

Regional Integration Specialist, Knowledge Management and Innovation, Strategy
Division, Development Bank of Southern Africa
October 1, 2014 - January 16, 2015

Ilir Haxhi

Assistant Professor, Amsterdam Business School, University of Amsterdam
April 15, 2014 - September 30, 2014

III. Education



1. Courses Given by the IIR Faculty Members — Apr. 2014 ~ Mar. 2016

	Fiscal Year	
	2014	2015
Graduate School of Commerce and Management		
Master's and Doctoral Program		
<i>[Courses provided by the Innovation kozas]</i>		
Advanced Innovation Management	Karube	Karube
Innovation, Strategy and Organization	Nobeoka	
Advanced Corporate Strategy		Nobeoka
Interorganizational Relations	Nishiguchi	Nishiguchi
Innovation, Policy and Institution	Eto/Okada	Eto/Okada
Economic Analysis of Innovation	Nagaoka	Ohyama
Special Lecture: International Comparison of Innovation 1	Malen/Haxhi	
Special Lecture: International Comparison of Innovation 2	Yonekura	Yonekura
<i>[Courses provided by the Business Economics kozas]</i>		
Advanced Industrial Economics	Nirei	
Institutional Environment of Innovation		Malen

MBA Program		
Business Economics	Nagaoka	Ohyama
Entrepreneurship	Yonekura	Yonekura
Corporate Organization	Aoshima	Aoshima
Technology Strategy	Nobeoka	Nobeoka
Strategic Analysis	Karube	Karube
Seminar: Readings in Business Classics B	Shimizu	
Workshop/Research Workshop: Management B (Industry and Labor)	Nagaoka	
Workshop: Management D (Corporation and Industry)		Shimizu
Workshop: Innovation	Nobeoka/Aoshima	Nobeoka
Hitotsubashi Senior Executive Program (HSEP)		
	Aoshima/Nobeoka	Aoshima/Nobeoka
Hitotsubashi Financial Leadership Program (HFLP)		
		Aoshima
Undergraduate Program in the Faculty of Commerce and Management		
Innovation Management	Yonekura/ Nishiguchi/Okada	Yonekura/ Nishiguchi/Okada
Interactive Course on Business Basics (Management)	Malen	Malen
Special Topics in Commerce and Management 1	Malen	Malen
Proseminar (Intensive Readings)	Nirei/Shimizu	Nishiguchi/ Ohyama
Undergraduate Introductory Seminar I	Karube/Nirei/ Shimizu	Nishiguchi
Undergraduate Introductory Seminar II	Aoshima/Karube/ Nirei/Nishiguchi/ Yonekura	Aoshima/Yonekura

Graduate School of Economics		
Master's and Doctoral Program		
Workshop/Research Workshop: Industry and Labor	Nagaoka*	

Note: * indicates a joint lecture with other faculty member(s) than those in the IIR.

2. Innovation Management and Policy Program

— Apr. 2014 ~ Mar. 2016

1. Overview

The Innovation Management and Policy Program (IMPP) is a doctorate-level certificate program training researchers to work in the management of innovation at private organizations or in the design of science and technology policy within public institutions. Students will study management and economic theories while developing skills for applying social science research methods. Based on this learning they will develop original academic research papers on topics related to innovation management or policy. By integrating education and research, the program aims to develop professionals capable of strengthening systems and knowledge supporting innovation in Japan and around the world.

This program is supported by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) “Science for RE-designing Science, Technology and Innovation Policy” Human Resource Development program (Cultivating Academic field hubs).

2. Students

IMPP students consist of doctoral students at Hitotsubashi University, doctoral students at other universities, and students holding a Master’s degree (or equivalent) currently working in private industry or the public sector. Classes are held primarily on Wednesday evenings and Saturdays.

To complete the program students must take Innovation Research Seminar I & II, three mandatory courses and two elective courses. In addition, two academic papers must be submitted.

3. Results

Academic Year 2014: 12 Current Students

	FY 2013	FY 2014	FY 2015
Practitioner-Students	-	5	5
Hitotsubashi University	4 (2)	3 (1)	3
Doctoral Students			

* numbers in parentheses indicate students of Graduate School of Commerce and Management

4. Main Events of Academic Year 2015

August 21st-	SciREX Summer Camp 2015
August 23rd	Venue: Meitetsu Inuyama Hotel
September 11th-	NUS-IIR Workshop on Innovation
September 13th	Venue: National University of Singapore (see I-3: Conferences, etc.)
February 19th	SciREX International Symposium “Industry-University Collaboration Policies for Promoting Innovation ” Venue: Hilton Fukuoka Sea Hawk

5. Main Events of Academic Year 2014

August 31st-	SciREX Summer Camp 2014
September 2nd	Venue: Awaji Yumebutai International Conference Center, Hyogo Prefecture
October 2nd	SciREX International Symposium “Entrepreneurship and Innovation Policy” Venue: Hitotsubashi Auditorium Assembly Hall (see I-3: Conferences, etc.)
January 30th	Sight Visits at Kitakyushu Smart Community, etc. 5 instructors and 3 students
February 27th	International Symposium “The Innovative Power of Small but Strong Nations” Venue: Hitotsubashi Auditorium Assembly Hall (see I-3: Conferences, etc.)

6. Courses

Required Courses:

1. Methodologies for Innovation Research; Summer term, 2 credits

Kentaro Nobeoka, Sadao Nagaoka, Yaichi Aoshima, Hiroshi Shimizu, Taiju Kitano, Manabu Eto and Yoshimi Okada (FY 2014)

Yaichi Aoshima, Manabu Eto, Yoshimi Okada and Taiju Kitano (FY 2015)

This course provides students with instruction in applying a range of methods relevant to conducting research in the field of innovation studies.

2. Management, Economics and Policy for Innovation; Summer term, 2 credits

Yaichi Aoshima, Seiichiro Yonekura, Masaru Karube, Taiju Kitano, Kentaro Nobeoka and Manabu Eto (FY 2014)

Yaichi Aoshima, Manabu Eto, Yoshimi Okada and Taiju Kitano (FY 2015)

This provides a comprehensive approach to understanding dimensions of social science underlying science, technology and innovation system, with particular focus on mechanisms supporting science, technology and innovation processes and their effectiveness.

3. Advanced Science Technology and Innovation; Winter term, 2 credits

Yaichi Aoshima and Yoshimi Okada (FY 2014)

Yaichi Aoshima and Atsushi Ohyama (FY 2015)

This course is an omnibus class based on interactions among leading engineers, scientists, and social science researchers. It has four modules: semiconductors, energy, optics, and IT.

4. Innovation Research Seminar I; Summer term, 2 credits

Yaichi Aoshima, Sadao Nagaoka, Kentaro Nobeoka, Makoto Nirei, Manabu Eto and Taiju Kitano (FY 2014)

Yaichi Aoshima, Atsushi Ohyama, Manabu Eto and Taiju Kitano (FY 2015)

The aim of this course is to promote the development of skills for writing journal papers, making academic presentation and improving the overall quality of student research.

5. Innovation Research Seminar II; Winter term, 2 credits

Toshihiro Nishiguchi, Hiroshi Shimizu, Masaru Karube, Seiichiro Yonekura, Joel B. Malen and Yoshimi Okada (FY 2014)

Yaichi Aoshima, Atsushi Ohyama, Manabu Eto and Taiju Kitano (FY 2015)

The aim of this course is to promote the development of skills for writing journal papers, making academic presentation and improving the overall quality of student research.

Elective Courses:

Electives are offered jointly with the Graduate School of Commerce and Management (Researcher Training Program)

1. Economic Analysis of Innovation; Summer term, 2 credits

Sadao Nagaoka (FY 2014)

Atsushi Ohyama (FY 2015)

2. Innovation Management; Winter term, 2 credits

Masaru Karube (FY 2014 & 2015)

3. Innovation, Policies and Systems; Winter term, 2 credits

Manabu Eto and Yoshimi Okada (FY 2014 & 2015)

Kentaro Nobeoka, Sadao Nagaoka, Yaichi Aoshima, Hiroshi Shimizu, Taiju Kitano, Manabu Eto and Yoshimi Okada (FY 2014)

Yaichi Aoshima, Manabu Eto, Yoshimi Okada and Taiju Kitano (FY 2015)

This course provides students with instruction in applying a range of methods relevant to conducting research in the field of innovation studies.

2. Management, Economics and Policy for Innovation; Summer term, 2 credits

Yaichi Aoshima, Seiichiro Yonekura, Masaru Karube, Taiju Kitano, Kentaro Nobeoka and Manabu Eto (FY 2014)

Yaichi Aoshima, Manabu Eto, Yoshimi Okada and Taiju Kitano (FY 2015)

This provides a comprehensive approach to understanding dimensions of social science underlying science, technology and innovation system, with particular focus on mechanisms supporting science, technology and innovation processes and their effectiveness.

IV. Research Results / Publications



1. Hitotsubashi Business Review — Apr. 2014 ~ Mar. 2016

To publish the findings of its research activities, the IIR issues a quarterly journal, called the *Hitotsubashi Business Review* (in Japanese). The rationale in editing the journal is to promote the theoretical and empirical study of innovation in a social and economic context. The editorial board comprises professors from several universities and company advisors, as well as IIR professors.

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Title of Special Issues

Vol.63 No.4	“Intellectual Property Strategies to Rise above Adversities”
Vol.63 No.3	“The Destruction and Creation of the Chinese Model”
Vol.63 No.2	“Strength and Risk of Family Business”
Vol.63 No.1	“‘Last Frontier’ AFRICA: What Do We Learn from There?”
Vol.62 No.4	“Design Engineering: It Is Not the Alternative of ‘Function or Design’”
Vol.62 No.3	“Innovation Power of Small Strong Countries: Why Japan Lose?”
Vol.62 No.2	“Startups and IPO: Why Do Japanese Startups Stall after IPO?”
Vol.62 No.1	“The Business Unit Strategy and Organization among Japanese Firms”

Featured Papers

Issue	Vol. / No.	Title	Author(s)
Mar. 2016	Vol.63 No.4	“Open Innovation and Intellectual Property Management”	Shigemi Yoneyama / Toshiya Watanabe / Isamu Yamauchi (Professor, Faculty of Economics, Gakushuin University; Professor, Research Center for Advanced Science and Technology, The University of Tokyo / Fellow, Research Institute of Economy, Trade and Industry)
		“Japanese Electronics Paradox as a Result of Misunderstood ‘Pro-patent’”	Makoto Ogino (Professor, Graduate School of Innovation Studies, Tokyo University of Science)
		“The Empirical Study on Creating and Profiting of Intellectual Properties: From the Case Study of Innovative Small and Medium-sized Enterprises”	Yasuo Tsuchiya (Professor, Graduate School of Business Administration, J. F. Oberlin University)
		“Patent-induced New Combinations of Knowledge and Resources: From Case Studies of Path-breaking Drugs”	Yasushi Hara / Sadao Nagaoka / Naoki Takada / Hideo Kawabe / Yoshiyuki Ohsugi (Professional Staff, GRIPS / Professor, Faculty of Economics, Tokyo Keizai University / Hitotsubashi University, Graduate School of Commerce and Management, IMPP / Patent Attorney, Manufacturing Technology Association of Biologics / Chairman & CEO, Ohsugi BioPharma Consulting Co., Ltd.)
		“Evaluation of Patents Obtained by Japanese Patentee in ‘The Lost Two Decades’”	Yoshimi Okada / Sadao Nagaoka / Yusuke Naito (Professor, IIR / Professor, Faculty of Economics, Tokyo Keizai University / Industry-academia-government Collaboration Researcher IIR)
		Should Change the Essential Patent Business: Use Patents in Cheap is More Important than License Fee	Manabu Eto (Professor, IIR)

Featured Papers (continued)

Issue	Vol. / No.	Title	Author(s)
Dec. 2015	Vol.63 No.3	“Lights and Shadows of Chinese Macroeconomy”	Osamu Tanaka (Fellow, Japan-China Organization for Business, Academia & Government Partnership)
		“Can the Wenzhou Model That Has Led Spontaneous Capitalism in China Outgrow Itself?: The Prosperity and Limits of Wenzhou Firms’ Community Capital”	Toshihiro Nishiguchi / Motoko Tsujita (Professor, IIR / Professor, Faculty of Economics, Department of Economics, Ryukoku University)
		“Effective Mobilization of Scarce Resource through Social Networks: Exploring Mechanisms that Accelerated the Growth of the Chinese PV Industry”	Yaichi Aoshima / Wang Wen (Professor, IIR / Ph.D. student, Graduate School of Commerce and Management, Hitotsubashi University)
		“Alibaba: The Road towards a Multi-platform Empire”	Jiang Hong / Liu Xiangli / Huang Yanghua / He Jun (Chinese Academy of Social Sciences)
		“Growth of China Companies and Reverse Innovation 2.0”	Xu Hangming (Japanese Major Electronics Company)
		“Conceptualization and Local Adaptation of Strategy”	Masatoshi Fujiwara (Associate Professor, Graduate School of Commerce and Management, Hitotsubashi University)
Sep. 2015	Vol.63 No.2	“On Theories of Family Business: Yesterday, Today, and Tomorrow”	Akihiro Okumura (Professor, School of Management and Information, Graduate School of Management and Information of Innovation, University of Shizuoka)
		“Family Business Research in Japan”	Shigeru Asaba (Professor, Waseda Business School)
		“Family Business in Post War Japan: Empirical Evidence from Publicly Traded Firms from 1962-2000 [IPO Year]”	Wiwattanakantang Yupana / Shim Jungwook (Associate Professor, NUS Business School, National University of Singapore / Associate Professor, Faculty of Economics, Kyoto Sangyo University)
		“Importance of Growth Stages and Governance in the Family Business”	Hirokazu Hasegawa / Takashi Yoneda (Professor, Waseda Business School / Visiting Professor, Waseda Business School)
		“Strength and Issues of Japanese Family Businesses: Family Charter and Family Office as a Powerful Solution”	Makoto Ohsawa (CEO of FEMO)
		Learn from the Wisdom of the World’s Oldest Business Firm Kongo-gumi: Prerequisites for Longevity from the Aspect of Traditional Industrial Business System	Hidekazu Sone (Assistant Professor, Faculty of Cultural Policy and Management, Shizuoka University of Art and Culture)
Jun. 2015	Vol.63 No.1	“Why Africa Now?: The Last Frontier, but the One Japan Is Going to Face for the First Time”	Seiichiro Yonekura (Professor, IIR)
		“Japan’s Shifting Geopolitical and Geo-Economic Relations in Africa: A View from Japan Inc.”	Martyn Davis / Kira McDonald (CEO, Frontier Advisory / Analyst, Frontier Advisory)

Featured Papers (continued)

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		“Project Finance in Post-conflict and Fragile Situations: What Role For DFIs?”	Michele Ruiters / Thierry Giordano (Africa Researcher, Development Bank of Southern Africa / Economist, the International Center for Agronomic Research and Development)
		“Japanese Companies Expanding into Africa”	Kanako Sakai (President, JCCP M Co., Ltd.)
Mar. 2015	Vol.62 No.4	“Creation of Design Value: Toward Integration of Design and Engineering”	Kentarō Nobeoka / Megumi Kimura / Atsushi Osanaï (Professor, IIR / Adjunct Assistant Professor, IIR / Associate Professor, Waseda Business School)
		“The Age of Design Engineering”	Shunji Yamanaka (Professor, Institute of Industrial Science, the University of Tokyo)
		“Practice of Design Engineering”	Kinya Tagawa (Director, Design Engineer, takram design engineering / Visiting Professor at Innovation Design Engineering, Royal College of Art))
		“Multinational Comparisons of Designer’s Role in Business Process: US-Japan-China Comparison Survey Result”	Yuichi Washida (Associate Professor, Graduate School of Commerce and Management, Hitotsubashi University)
		“Creating Excellent Industrial Designs by Multi-disciplinary Engineers and Industrial Designers: An Empirical Study on Japanese Digital Camera Manufacturers”	Atsushi Akiike / Tohru Yoshioka (Kobayashi) (Ph.D. Student, Graduate School of Economics, The University of Tokyo / Ph. D. student, School of Engineering, The University of Tokyo)
		“Design Knowledge to Lead Engineering toward Human Feelings”	Yukari Nagai (Professor, School of Knowledge Science, Japan Advanced Institute of Science and Technology)
Dec. 2014	Vol.62 No.3	“Swiss Innovation Power Based on Human Skill Management”	Manabu Eto (Professor, IIR)
		“Institutional Sources of Innovation in Singapore: Similarity and Disparity with Finland”	Chihiro Watanabe (Visiting Professor, National University of Singapore, University of Jyväskylä, Emeritus Professor, Tokyo Institute of Technology)
		“Danish Strategic Participatory Design Approach for Innovation and Creativity: Nordic Culture, Social Structure and Strategic Methodology for its High Producing”	Mika Yasuoka (Service Design Project Leader, IT University of Copenhagen)
		“Food Valley in the Netherlands: Food Cluster of a Little Agripower”	Munehiko Itoh / Kimitaka Nishitani / Yoichi Matsumoto / Salena Watanabe (Professor / Associate Professor / Associate Professor / Special Appointment Associate Professor, Research Institute for Economics and Business Administration, Kobe Univ.)
		“The Two Aspects of Israel: The Innovation State in Conflicts”	Isamu Nakashima (Chief Researcher, Middle East Institute of Japan)

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		“Is Optimal Capital Structure ‘Optimal’?”	Tomonori Ito (Professor, Graduate School of International Corporate Strategy, Hitotsubashi University)
		“Co-creating and Synthesizing Strategic Narrative”	Ikujiro Nonaka / Ayano Hirose (Emeritus Professor, Hitotsubashi University / Adjunct Assistant Professor, Graduate School of International Corporate Strategy, Hitotsubashi University)
Sep. 2014	Vol.62 No.2	“Growth Dynamics of Firms after the IPO”	Kenji Kutsuna (Professor, Graduate School of Business Administration, Kobe University)
		“New Venture Valuation”	Kazuhiko Yamamoto / Ryo Okubo (President, Chief Executive Partner of Classic Capital Corporation / Director, Partner of Classic Capital Corporation)
		“The Impact of Managerial Ownership on Firm Value in High Growth Firms: An Empirical Analysis Focusing on Founder-CEOs”	Yuki Watanabe (Pro-manager of the Finance Department, SMBC Venture Capital)
		“IPO Market in Japan: Current Situation and TSE’s Actions”	Akira Kiyota (President & CEO of Tokyo Stock Exchange, Inc., Director of Japan Exchange Group, Inc.)
		“Japan’s New Venture Business Policy: Programs for Fostering Entrepreneurship and Venture Ecosystem”	Yoshiaki Ishii (Consulting Fellow Director, New Business Policy Office, Economic and Industrial Policy Bureau, Ministry of Economy, Trade and Industry (METI))
		“Search for Corporate Venture Capital, Innovation, and Firm Value”	Mikiharu Noma (Associate Professor, ICS, Hitotsubashi University)
Jun. 2014	Vol.62 No.1	“Illusion of Organic Organization”	Tsuyoshi Numagami (Professor, Graduate School of Commerce and Management, Hitotsubashi University)
		“Overview of Questionnaire Survey on Business Unit in Japanese Firms”	Toshihiko Kato (Professor, Graduate School of Commerce and Management, Hitotsubashi University)
		“Strategic Orientation and Strategic Planning Process in the Business Units among Japanese Firms”	Masaru Karube (Associate Professor, IIR)
		“Leadership and Middle Management Involvement in Strategy”	Masato Sasaki (Associate Professor, Graduate School of Commerce and Management, Hitotsubashi University)
		“Towards the Evidence-based Model of Knowledge-creating Theory”	Ikujiro Nonaka / Noboru Konno / Ayano Hirose (Professor Emeritus, Hitotsubashi University / President of KIRO Inc. / Adjunct Assistant Professor, ICS, Hitotsubashi University)

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		Ricoh Imaging: A Case on Brand Communication of Premium Compact Camera “GR”	Yukihiko Kubota / Mitsutoshi Otake (Professor, School of Business, Department of Marketing, Aoyama Gakuin University / Associate Professor, Faculty of Economics Department of Business Administration, Meiji Gakuin University)
Dec. 2015	Vol.63 No.3	Morpho: Decade-long History of Image Processing Technology Venture from University of Tokyo	Genjiro Kosaka (Associate Professor, Faculty of Economics, Sophia University) Kosaka Seminar, Sophia University
		Ryohin Keikaku: Penetrating the Vision of a Simple, Pleasant Life in China	Kazumi Nishino (Associate Professor, Graduate School of Innovation Studies, Tokyo University of Science)
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		JIN Co., Ltd	Hisanaga Amikura / Takuya Miwa (Professor, Department of Management, Faculty of Economics, Sophia University / Student, Department of Management, Faculty of Economics, Sophia University)
Jun. 2015	Vol.63 No.1	Enigmo Inc.	Noriko Taji / Junji Fukuda (Professor, Graduate School of Business Administration, Hosei University / Professor, Graduate School of Business Administration, Hosei University)
		Nihon Kotsu Co., Ltd.	Emiko Tsuyuki (Professor, Chuo Graduate School of Strategic Management, Chuo University / Tsuyuki Seminar, Chuo University)
Mar. 2015	Vol.62 No.4	CASIO Computer Co. LTD.	Kunio Tanigawa / Noriko Taji (Graduate, Hosei Business School / Professor, Hosei Business School)
		NITTO DENKO CORPORATION	Kei Fujiyama (Ph.D. Student, Graduate School of Commerce and Management, Hitotsubashi University)
Dec. 2014	Vol.62 No.3	Ajinomoto’s Aminoindex: Collaboration and New Entry in Health Risk Analysis Services	Hiroshi Shimizu (Associate Professor, IIR)
		NIPPON STEEL & SUMIKIN ENGINEERING co., LTD.	Tomoyuki Shimanuki (Associate Professor, Graduate School of Commerce and Management, Hitotsubashi University)
Sep. 2014	Vol.62 No.2	Marketing Research Industry: The Rise of Internet Research and Competition among Incumbent Firms and New Entrants	Genjiro Kosaka (Associate Professor, Faculty of Economics, Sophia University / Kosaka Seminar, Sophia University)
		Panasonic: How to Grow a Cash Cow: Monolithic Dual Wavelength High Power Laser Diode of Panasonic	Sayako Miura / Hiroshi Shimizu (Junior Associate Professor, Faculty of Business Administration, Shujitsu University / Associate Professor, IIR)

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		KONICA MINOLTA, INC.	Salena Watanabe / Kei Kuriki (Assistant Professor, Responsible for Systematic Research and Promotion of Knowledge Diffusion on Service Innovation / Professor, Graduate School of Business Administration, Kobe University)

Columns

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Jun. 2015	Vol.63 No.1	Satoshi Ogiso (Corporate Adviser of ADVICS CO., LTD., Corporate Adviser of Toyota Motor Corporation)	Kentaro Nobeoka Yaichi Aoshima
Mar. 2015	Vol.62 No.4	Kosuke Takei (General Manager of Design Division, TOTO Ltd.)	Kentaro Nobeoka Yuichi Washida Megumi Kimura
Dec. 2014	Vol.62 No.3	Toshihiko Omote (Executive Vice President Board Member, Nitto Denko Corporation)	Kentaro Nobeoka Yaichi Aoshima
Sep. 2014	Vol.62 No.2	Kazushi Kuse (Vice President, IBM Research & Development)	Kentaro Nobeoka Yaichi Aoshima
Jun. 2014	Vol.62 No.1	Satoru Kuriyagawa (Director & Executive Officer, Vice President, Solar Frontier K.K.)	Kentaro Nobeoka Yaichi Aoshima

Serials

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Jun. 2015 Sep. 2015 Dec. 2015 Mar. 2016	Vol.63 No.1 Vol.63 No.2 Vol.63 No.3 Vol.63 No.4	The Management of MUJI (1)-(4)	Hidehiko Nishikawa (Professor, Faculty of Business Administration, Hosei University)
Mar. 2015 Mar. 2016	Vol.62 No.4 Vol.63 No.4	Porter Prize 2014 Porter Prize 2015	Emi Osono / Seiko Yamazaki (Professor, ICS, Hitotsubashi University)

Commentaries on Key Words

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Dec. 2015	Vol.63 No.3	Authenticity	Mitsutoshi Otake (Associate Professor, The Faculty of Economics, Meiji Gakuin University)
Sep. 2015	Vol.63 No.2	“Razor-and-Razor-Blade” Business Model	Masatoshi Fujiwara (Associate Professor, Graduate School of Commerce and Management, Hitotsubashi University)
Jun. 2015	Vol.63 No.1	Organizational Forgetting as a Strategy	Min Jungwon (Assistant Professor, Fields in Management, Department of Industrial and Business System, Faculty of Economics, Kyushu University)
Mar. 2015	Vol.62 No.4	Workshop	Yukie Umezu (Senior Director, Japan Marketing Agency)
Dec. 2014	Vol.62 No.3	Politics	Yuki Tsuboyama (Associate Professor, Graduate School of Commerce and Management, Hitotsubashi University)
Sep. 2014	Vol.62 No.2	Social Networks and Strategic Management	Tsutomu Nakano (Professor, Department of International Management, Graduate School of International Management, Aoyama Gakuin University/ External Faculty, Center on Organizational Innovation, Columbia University)
Jun. 2014	Vol.62 No.1	Reverse Innovation	Washida Yuichi (Associate Professor, Graduate School of Commerce and Management, Hitotsubashi University)

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Issue	Vol./No.	Interviewee	Interviewer(s)
Mar. 2016	Vol.63 No.4	Katsushige Nakamura (President and CEO, Mitaka Kohki Co., Ltd.)	Yaichi Aoshima Yoshimi Okada
Dec. 2015	Vol.63 No.3	Uichiro Niwa (Grand Master of Japan-China Friendship Association, Former Ambassador to China)	Seiichiro Yonekura Masatoshi Fujiwara
Sep. 2015	Vol.63 No.2	Akira Takata (Former CEO, JAPANET HOLDINGS Co., Ltd. / CEO, A and Live)	Seiichiro Yonekura
Jun. 2015	Vol.63 No.1	Mohau Pheko (Ambassador, the Republic of South Africa to Japan)	Seiichiro Yonekura
Mar. 2015	Vol.62 No.4	Naoto Fukasawa (Product Designer)	Kentaro Nobeoka Yuichi Washida Megumi Kimura
Dec. 2014	Vol.62 No.3	Roger Zbinden (Counselor, Swiss Chamber of Commerce and Industry in Japan (SCCIJ), Delegate, Swiss Business Hub Japan)	Seiichiro Yonekura
Sep. 2014	Vol.62 No.2	Yusuke Umeda (Co-Chief Executive Officer, UZABASE, Inc.) / Soichi Kariyazono (Managing Partner, Globis Capital Partners)	Seiichiro Yonekura
Jun. 2014	Vol.62 No.1	Sawada Hideo (Chairman, H.I.S. Co., Ltd)	Seiichiro Yonekura

Reviewed Articles

Issue	Vol./No.	Title	Author(s)
Jun. 2015	Vol.63 No.1	“Behavioral Characteristics of Employees Leading to a High Level of Self-efficacy for Business Creation”	Tomoki Sekiguchi (Professor, Graduate School of Economics, Osaka University)
Jun. 2014	Vol.62 No.1	“The Effect of Transformational Leadership by Human Resource Department”	Tomoki Sekiguchi (Professor, Graduate School of Economics, Osaka University)

2. Working Papers — Apr. 2014 ~ Mar. 2016

		Title	Author(s)
WP#16-03	Mar. 2016	“Can You Teach a Lion to Roar?” Selected African Skills Development and Capacity Building Perspectives: Breaking Down Old Paradigms and Creating New Opportunities”	Dumisani Magadlela
WP#16-02	Mar. 2016	“The Changing Networks of the Wenzhou Apparel Industry: Descriptive Features and Cluster Analysis” (in Japanese)	Toshihiro Nishiguchi / Motoko Tsujita
WP#16-01	Jan. 2016	“Brand Royalty and Generic Competition”	Jiangyun Wan
WP#15-22	Oct. 2015	“Economic Growth Analysis of Japan by Dynamic General Equilibrium Model with R&D Investment” (in Japanese)	Akiyuki Tonogi
WP#15-21	Sep. 2015	“The Merger Paradox and R&D”	Kaz Miyagiwa / Jiangyun Wan
WP#15-20	Sep. 2015	“Initial Public Offering and Financing of Biotechnology Start-ups: Evidence from Japan”	Yuji Honjo / Sadao Nagaoka
WP#15-19	Aug. 2015	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Onon (JST-N-CASE07)” (in Japanese)	Kenta Nakamura
WP#15-18	Aug. 2015	“Pharmaceutical Patents and Generic Entry Competition: A New View on the Hatch-Waxman Act”	Jiangyun Wan / Kaz Miyagiwa
WP#15-17	Aug. 2015	“Clinical Research and Science: Findings from a Project-level Survey on Pharmaceutical Innovations and Their Economic Impacts in Japan (part II)” (in Japanese)	Sadao Nagaoka / Junichi Nishimura / Koichi Genda
WP#15-16	Aug. 2015	“Drug Discovery and Science: Findings from a Project-level Survey on Pharmaceutical Innovations and Their Economic Impacts in Japan (part I)” (in Japanese)	Sadao Nagaoka / Junichi Nishimura / Koichi Genda
WP#15-15	Aug. 2015	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Tarivid/Cravit (JST-N-CASE12)” (in Japanese)	Yasushi Hara / Yuji Honjo
WP#15-14	Aug. 2015	“A Cost Benefit Analysis of AminoIndex™ Cancer Screening in Japan”	Masaoki Tamura / Akira Imaizumi / Takahiko Muramatsu / Nobuhisa Shimba
WP#15-13	Jul. 2015	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Harnal (JST-N-CASE10)” (in Japanese)	Yasushi Hara / Hajime Oda / Akira Nagumo
WP#15-12	Jul. 2015	“Effects of Early Patent Disclosure on Knowledge Dissemination: Evidence from the Pre-grant Publication System Introduced in the United States”	Yoshimi Okada / Sadao Nagaoka
WP#15-11	Jun 2015	“Monozukuri as Expression: Sense Creation for Value Creation” (in Japanese)	Megumi Kimura
WP#15-10	Mar. 2015	“Inefficiency Caused by Feed-in Tariff: An Analysis on Diffusion of the Japanese Roof-top PV System” (in Japanese)	Yaichi Aoshima / Kenji Asano
WP#15-09	Mar. 2015	“An Effect of Governmental Subsidy on Price of the Roof-top PV System” (in Japanese)	Kenji Asano / Yaichi Aoshima
WP#15-08	Mar. 2015	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Compactin (JST-N-CASE-05)” (in Japanese)	Sadao Nagaoka / Yasushi Hara

		Title	Author(s)
WP#15-07	Mar. 2015	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Aricept (JST-N-CASE08)” (in Japanese)	Yasushi Hara / Hideo Kawabe
WP#15-06	Mar. 2015	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Mevalotin (JST-N-CASE06)” (in Japanese)	Yasushi Hara / Sadao Nagaoka
WP#15-05	Jan. 2015	“Exploring the Secrets of Transnational Startups: Border-crossing Strategies of China’s Wenzhou Entrepreneurs Drawing on Community Capital” (in Japanese)	Toshihiro Nishiguchi / Motoko Tsujita
WP#15-04	Jan. 2015	“Collaboration and Innovation Speed: Evidence from a Prize Data-Set, 1955-2010”	Hiroshi Shimizu / Yusuke Hoshino
WP#15-03	Jan. 2015	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Blopess (JST-N-CASE04)” (in Japanese)	Naoki Takada / Koichi Genda / Akira Nagumo
WP#15-02	Jan. 2015	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Actos (JST-N-CASE03)” (in Japanese)	Naoki Takada / Koichi Genda
WP#15-01	Jan. 2015	“Initial Public Offering and Financing of Biotechnology Start-ups” (in Japanese)	Yuji Honjo / Sadao Nagaoka / Kenta Nakamura / Yumi Shimizu
WP#14-10	Dec. 2014	“Searching for the Declining Causes and Effects of Japanese Semiconductor Industry: In View of System Architecture” (in Japanese)	Hiroyuki Chuma
WP#14-09	Dec. 2014	“Creative Industries Policies for Innovation in UK” (in Japanese)	Megumi Kimura
WP#14-08	Oct. 2014	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Leuplin (JST-N-CASE02)” (in Japanese)	Naoki Takada / Hideo Kawabe
WP#14-07	Oct. 2014	“A Case Study on Discovery and Clinical Development of a Break-through Drug in Japan: Actemra (JST-N-CASE01)” (in Japanese)	Yasushi Hara / Yoshiyuki Ohsugi / Sadao Nagaoka
WP#14-06	Oct. 2014	“Vectran: Development of High-Functionality Fiber and its Applications at Kuraray Co., Ltd.”	Keisuke Hori / Yusuke Hoshino / Hiroshi Shimizu
WP#14-05	Jun. 2014	“An Economic Analysis of Deferred Examination System: Evidence from Policy Reforms in Japan”	Isamu Yamauchi / Sadao Nagaoka
WP#14-04	Jun. 2014	“The Spillover Effects of Publicly Supported Private R&D: Analysis of NEDO Follow-up Survey Data”	Kazunari Matsushima / Yaichi Aoshima
WP#14-03	Jun. 2014	“Margin Rate Rule: A New Drug Pricing Policy in Japan”	Masaoki Tamura
WP#14-02	Jun. 2014	“Searching for the Root Causes of Declining Competitiveness in Japanese Semiconductor Industry: From Innovation-Design Perspectives” (in Japanese)	Hiroyuki Chuma
WP#14-01	Apr. 2014	“Advisory Organization as Advocacy Channels: An Analysis of Public Councils and Workshops” (in Japanese)	Hajime Oda

3. Case Studies — Apr. 2014 ~ Mar. 2016

(In Japanese)

		Title	Author(s)
CASE#14-02	Jun. 2012	“Nitto Denko Corporation: Development of Reverse Osmosis Membrane and its Application” (in Japanese)	Masatoshi Fujiwara/ Yaichi Aoshima

‘The new combinations appear discontinuously, then the phenomenon characterising development emerges.’

Joseph A. Schumpeter
The Theory of Economic Development

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