

## Appendix 1

JST 社会技術研究開発センター・地域主導型科学者コミュニティの創生プロジェクト

# 地域環境学ネットワーク 設立記念シンポジウム

「地域の環境保全と持続可能な発展に役立つ科学を求めて」

2010年 **9/18(土)・19(日)** 会 場: **大阪学院大学**

■9月18日(土)

12:30～ 受付開始: 2号館B1-02 前

13:00～18:30 基調講演・シンポジウム第1部: 2号館B1-02

18:45～20:45 交流会(会費制): 職員食堂

■9月19日(日)

8:30～ 受付開始: 2号館B1-02 前

9:00～10:00 地域環境学ネットワーク総会(会員のみ): 2号館B1-02

10:00～12:00 ポスターセッション: 2号館B1フロア

13:00～17:30 シンポジウム第2部: 2号館B1-02

入会  
申し込み  
受付中!

主催: 地域環境学ネットワーク  
[http://www2.nagano.ac.jp/sato/network\\_localscience/index.html](http://www2.nagano.ac.jp/sato/network_localscience/index.html)

## Program (Day 1: September 18)

【Venue】B1-02, Building 2

### **Opening speech**

13 : 00~13 : 10 Tadashi Kobayashi (Professor, Osaka University / Deputy Area Director, "Science and technology and human beings" research and development area, Research Institute of Science and Technology for Society, Japan Science and Technology Agency)

### **Keystone speech**

13 : 10~13 : 50 Tetsu Sato (Nagano University)  
"In search of sciences useful for sustainable development of communities—the Aim of the Local Science Network for Environment and Sustainability"



I have been studying on the biology and evolution of fish in the Lake Tanganyika and the Lake Malawi in East Africa, and on the eco-system evolution through niche construction and interspecies interactions. I am recently interested chiefly in a practical "regional environmental study" to produce the knowledge useful for environmental protection and natural resource management while exploiting the knowledge to contrive measures for environmental protection and community development. my activity field widely ranges from lakes in Africa to the coral reef in the Ishigaki Island and village forests in Nagano Prefecture.

Break 13 : 50~14 : 00

### **Symposium Part 1** 14 : 00~18 : 30

"What knowledge is useful for communities? — Various Study Visions"

14:00-14:05 Coordinator: Shigeru Yanaka (Tottori University)  
"Summary of the symposium"

I study on the decision making process and right relationship over community resources management. I work on environmental (problem) studies from the livelihood perspective with Okinawa, Minamata, and so on as study fields.



14:05-14:40 Hiroaki Niitsuma (Tohoku University)

"Science for Solution of Problems Appropriate for

I propose EIMY (Energy In My Yard), which is a concept of local consumption of locally produced energy, and am engaged in practical research of EIMY at Yumoto, Tenei Village, Fukushima Prefecture; Kawasaki Town, Miyagi Prefecture; Otari-mura Nagano Prefecture and so on.



"let's rotate the power generator with wind power and soil power"  
EIMY Yumoto Project



14:40-15:15 Yoshimi Higa (Onna-son fishermen's cooperative)

"Studies in Livelihood—Knowledge

I have been engaged in the development of aquaculture technologies and industrialization for mozuku, sea grapes, and so on at the Onna-son Fishermen's Cooperative in Okinawa prefecture. I am also involved in environment/ecosystem conservation activities including coral regeneration, acanthaster extermination, and prevention of red earth spilling.



"Coral Reef Regeneration" activities, Onna-son Fishermen's Cooperative,

15:15-15:50 Hiroyuki Ida (Yezo Deer Association)

"Convert negative resources to positive resources—solution

I am involved in activities concerning the effective use (eat, use, wear) of Yezo Deer as one of population size control measures for 10 years. I wish to expand my activities in future under the theme of sightseeing and foods using natural resources including Yezo Deer.



Yezo Deer Horn Craft Class useful to know about and effectively use Yezo Deer

15:50-16:25 Susumu Nozaki (Shiki Kobo Ltd.)  
"Technological Development through Corporate Activities and Communities—Forestation and Community Development for Small Builders in the Community"

We are a small builder headquartered in Fukushima Prefecture with offices in several prefectures including Tokyo and Miyagi. All of our houses are constructed one by one by carpenters using 100% domestic materials by the AirPass Construction Method with Solar House Certification and finished with lime plaster.



Environmentally friendly house building using locally-produced wood.

16:25-17:00 Hiroyuki Matsuda (Yokohama National University) "Visiting researchers and communities—approaches I took to be accepted and used"

I am engaged in studies to present a specific solution for eco-system management by mathematical ecology while functioning as committee members for environmental impact assessment of EXPO 2005 AICHI, Hokkaido Yezo Deer management, Shiretoko/Yakushima World Heritage, and so on. Representative director for the Society for Conservation of Fisheries Resources and Marine Environment.



Shiretoko Sea Area Management Project / Yezo Deer Adaptive Management

17:00-17:10 Comment from Tomoya Akimichi (Research Institute for Humanity and Nature)

I am involved in studies on the use and appropriation of community resources, collaborative governance between stakeholders, and resource management. I have also engaged in networking toward the "Construction of Global Environment Repository and Creation of New Knowledge in Wide-area Asia" for five years to strengthen collaborations with institutions of national and private universities in all over Japan. As a part of such efforts, I transmit information through the research journal, "SEEDer."

17:10-18:30 Panel discussion

## Program (Day 2: September 19)

**【Venue】 B1-02, Building 2 (poster session held on the floor)**

### Local Science Network for Environment and Sustainability General Assembly (for members only)

9:00-10:00

### Poster session

10:00-12:00

First core time (odd Number) 10:30-11:00

Second core time (Even Number) 11:00-11:30

Lunch time 12:00-13:00

### Symposium Part 2 13:00-17:30

"Active Networks in Communities—collaborations beyond the difference in views or sense of values"

13:00-13:05 coordinator: Mayuko Shimizu (Nagano University)

"Summary of the symposium"

I am trained as a useful researcher for communities. I studied the consensus building process by participated in such activities at the new town as community regeneration, regeneration of polluted communities, and the Local Agenda 21.



13:05-13:40 Mahito Kamada (Tokushima University)

"Constant actors involved in the Kamikatsu Satoyama Club"

The theme "How has the human being faced and interacted with the nature? And how has the nature reacted to the human being?" is my work basis. During my eight-year curatorship in the Tokushima Prefectural Museum, I was confronted with a question about the meaning and method of transmitting the study results to the public and of contributing to the community. I feel that my activities in this project are answers to the assignment I was given during my service at the museum.



Landscape of the Tokushima Prefectural Takamaru-yama Sennen-no Mori Forestation Area

16:00-16:10 Comment from Koji Nakamura (Kanazawa University)

The "Noto Peninsula Satoyama-Satoumi Nature School" and the "Satoyama Master Education Program," for which I serve as the chairman of a steering committee, conduct conservation and regeneration of village forests and village beaches, which are close nature for the community people, hands-on learning,





13:40-14:15 Kenji Niwa (Yahagi River Forest Examination Executive Committee)

**"Study Networking People—Medical Examination for Forests"**

I have been involved in organic farming movement since I was a university student. After having engaged in agriculture, I joined the Ministry of Agriculture, Forestry and Fisheries in 1980. Besides, I was involved in the foundation of the "Asuke Kikori Juku," "Yahagi River System Forest Volunteer Association," and the "Ise-Mikawa Bioregions Network" after engaging in civil movements for foods and agriculture including a post of director for the "Aichi Association for Foods, Agriculture, and Health of Japan." At present, I am the representative of the Yahagi River Forest Examination Executive Committee and the representative of the Yahagi River System Forest Volunteer Association. I am engaged in the "Wooden Station Project" at the NPO Yudachiyama Forest School and in hearing and writing activities on mountain villages at the NPO Yamasato Bunka Kenkyukai.



Medical Examination for  
Yahagi River Forest

14:15-14:50 Masahito Kamimura (Shiraho Sakana-Waku-Umi Community Conference)

**"Catalyst Supporting Regional Activities—Residential Researchers Behind the Scenes"**

I am engaged in sustainable community development conducive to coral reef protection at the Ishigaki Island Shiraho Village in Okinawa Prefecture. I am also engaged in activities with the aim of holding the International Stone Tidal Weir Summit to promote the collaboration and exchange among regions with stone tidal weir at home and abroad.

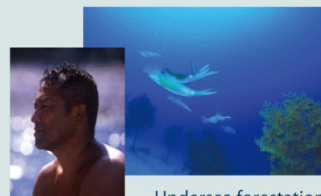


Shiraho Reef Village (WWF Coral Reef  
Conservation and Research)

14:50-15:25 Masaru Kanda (NPO Kuroshio Zikkan Center)

**"Meaning of Settling—pride and Affection for the Village Beach"**

I am engaged in activities to encourage more people to know and improve the sea together with the objective of developing a "village beach" model, in which the people and the sea can coexist, at Kashiwa Island, Kochi Prefecture. We energetically work on such activities as periodical survey on marine environment, leaning through experience to feel nature, eco-tour, construction of spawning bed for bigfin reefsquid with thinned branches of Japanese cypress, and so on.



Undersea forestation  
thinned wood was placed on the ocean  
floor as an artificial spawning bed for  
bigfin reefsquid

15:25-16:00 Shinichiro Shikakuma (Yaeyama Agriculture, Forestry and Fisheries Promotion Center, Okinawa Prefecture)  
**"Administrative researcher and community—adviser on useful knowledge and technologies"**

I am involved in management of fishery resources and protection of the coral reef ecosystem in the tropical and subtropical zones. Recently, I am interested in MPA (marine protected area) and the village beach. At present, I work as an instructor for proliferation of marine products in the Ishigaki Island, Okinawa Prefecture. I also work as the chairman for the Coral Reef Protection Committee, Japan Coral Reef Society.



Yaeyama sea areas Resource  
management by MAP

city and agricultural village exchange program, and cultivation of resources development for environmentally-friendly regional development on the basis of agriculture, forestry and fisheries, with residential researchers stationed at the "Noto School Building," which was reconstructed from an abolished school, in cooperation with a wide variety of human resources who are active in the Oku Noto Region.

16:10-17:25 Panel discussion

## Poster session

【Venue】 Floor in Building No. 2

Odd No.= First core time, Even No.= second core time

No.	Presenter's name	Affiliation	"Title"
1	Akira Terabayashi	Researcher at Norinchukin Research Institute Co., Ltd./Graduate School of Letters, Hokkaido University	"TBA"
2	Koichi Mikami, Kazuaki Takahashi, Daisuke Takahashi, Tetsu Sato	Faculty of Tourism and Environmental Studies, Nagano University	"Possibility of Environmental Monitoring of Satoyama Through Information Infrastructure Development"
3	Katsunobu Shirakawa, Kogen No Shizenkan	(Kita-Hiroshima Board of Education)	"Regional Biodiversity Strategy Formed Through the Compensation of Mutual Knowledge by Citizens and Researchers"
4	Masahiro Nagano, Chie Ito, Hiroki Yamagishi, Takuo Sawahata, Koichi Mikami	Echigo-Matsunoyama Museum of Natural Science, Tokamachi City	"Community Activities in Collaboration by Citizens, Tourist Companies, and Researchers - Challenge of the "Satoyama-no Megumi Anainin-no Kai (Village Forest Blessings Guides' Association)" -"
5	Daisuke Takahashi, Yuuki Ide, Kazuaki Takahashi, Koichi Mikami, Hironori Ando, Tetsu Sato	Faculty of Tourism and Environmental Studies, Nagano University	"Effects of Water Areas in Forests on the Improvement of Biodiversity and Ecosystem Services in Satoyama"
6	Mariko Sakamoto, Environment & Town Planning		"TBA"
7	Toshiaki Sawada, Environment & Town Planning		"TBA"
8	Tadashi Yogi	Yaeyama Fishermen's Association	"Acanthaster Extermination Activities in Yaeyama"
9	Naoki Kachi / Shinya Numata, Tokyo Metropolitan University		"Consortium for the Interdisciplinary Study of Human and Nature Symbiosis in Island Systems"
10	Atsushi Yamaba / Toshikazu Sano, Hiroshima Prefectural Technology Research Institute Forestry Research Center		"Development of Communication Tools Useful for Concentrated Plantation of Artificial Forests in Satoyama"
11	Noboru Kuramoto	School of Agriculture, Meiji University	"TBA"
12	Tatsuya Kinjo	Hokkaido University Graduate School of Letters Doctoral Course	"Environmental Protection and Diversity of Society in Okinawa's Yanbaru region"
13	Maki Ikegami,	Postgraduate Course, Graduate School of Environmental Studies, Tohoku University	"'Society of Kawasaki-Sendai Wood Stove' that directly connects village forests with wood stove users"
14	Mitsuhiko Asakawa, Wild Animal Medical Center, Department of Veterinary Medicine, Rakuno Gakuen University		"TBA"
15	Ryu Ohtani, Advanced Industrial Science and Technology		"TBA"
16	Masako Watanabe <sup>1</sup> , Naotomo Ota <sup>1</sup> , Mahito Kamada <sup>2</sup> , Toshiaki Sawada <sup>2</sup>	<sup>1</sup> Anan National College of Technology <sup>2</sup> Tokushima University	"Secrets" of collaboration among industry, academia, government, and citizens — Networking Council Based in the South Region as a Model —"
17	Noboru Tomita	Postgraduate Course, Graduate School of Environmental Studies, Tohoku University	"Mountains, hot springs, people—development of trades and livelihood based on community treasures—“EIMY Yumoto Project”"
18	Mayuko Shimizu,	Faculty of Tourism and Environmental Studies, Nagano University	"Generate the actors in urban planning—Nishi-Yodo River Transportation Urban Planning Project—"



## Purposes of this meeting

It is often the case in the efforts toward the solution of environmental problems facing the community and sustainable development of the community that various scientific solutions are not always effectively used by the regional people.

This may be attributed to scientists who are apt to produce knowledge that is inconsistent with the tradition or culture inherent in the community, or the conventional decision making system of the community, namely knowledge not usable in the community. Under such a problem consciousness, we have promoted the "Construction of a pragmatic scientist community contributing to stakeholder-driven management of local environment" research & development project since 2008 with the support of the JST Research Institute of Science and Technology for Society in pursuit of the way how sciences ought to produce the "problem-solving" knowledge that are useful for the solution of environmental problems and the sustainable development of communities and how scientists and experts ought to collaborate with various stakeholders in the community.

In addition, we established the "Local Science Network for Environment and Sustainability" in March 2010 as a forum for scientists, experts, and local stakeholders in all over Japan sharing such an awareness of the issues and developed a system to promote the sharing and information and mutual studies concerning the cases in various regions. This time, the Local Science Network for Environment and Sustainability Foundation Symposium will be held with the objective of introducing the vision and significance of the network to many people in commemoration of the establishment of the Local Science Network for Environment and Sustainability.

In Part 1 of the symposium, how the new knowledge production ought to be over the borders of the conventional sciences will be explored in light of the actual condition that the sciences producing the knowledge useful for the people in the community to solve problems are supported not only vocational scientists and experts but also people in various positions through the introduction of cases in all over Japan.

The various people grappling with environmental problems, which communities are faced in the respective regions, form networks engaged in dynamic activities within the communities, where vocational scientists/experts and various knowledge producers are important constituents. In Part 2 of the symposium, a system, which can promote activities toward the solution of problems with such intraregional networks maintaining their centripetal force, will be discussed through advanced cases in various regions.

In addition, a poster session will be held in the morning on the second day to have reports on activities in various communities and deepen the information sharing and exchanges with participants.

We wish to enjoy exchanges very much with people from all over Japan who struggle with the aim of sustainable development of their communities in harmony with the natural environment.

Tetsu Sato, Representative, Local Science Network for Environment and Sustainability



## Local Science Network for Environment and Sustainability

Member List (as of September 13, 2010) ★ indicates founders and ● indicates steering committee members.

Tomoya Akimichi	Deputy Director / Professor, Research Institute for Humanity and Nature
★Anne McDonald	Director, UNU-IAS Operating Unit Ishikawa/Kanazawa
Maki Ikegami	Assistant Professor, Postgraduate Course, Graduate School of Environmental Studies, Tohoku University
★●Hiroshi Ikeda (deceased)	Former Director, Research Division, Hyogo Prefectural Homeland for the Oriental White Stork
★Hiromasa Ikureda	Instructor, Faculty of Environment Systems, Rakuno Gakuen University
★Hiroyuki Ida	Director, Yezo Deer Association / Director, Hokkaido Slow Food Friends Obihiro
★●Atsushi Ueda	Chief of Division of Oriental White Stork and Human Coexistence, Toyooka City
Gohei Ueda	Toyooka Agriculture, Forestry, and Fisheries Office, Hyogo Prefectural Government
★Shinobu Uchida	Kushiro Wetland Nature Restoration (Wanda-grinda) Project, Hokkaido Environment Foundation
Itaru Ohta	Okinawa Prefecture Fisheries and Marine Technology Research Center
★●Hideyuki Onishi	Associate Professor, Doshisha Women's College of Liberal Arts
Yukino Ochiai	Associate Professor, Kagoshima University Museum
★●Kaoru Kakihana	President, Kerama Coastal Environment Conservation Association
★Takenobu Kakihana	President, 21 Zamami / Former President of Kerama Natural Conservation and Environment Council / Former President of Zamami-son Chamber of Commerce and Industry
★●Shinichiro Shikakuma	P&R section, Division of Agriculture, Forestry and Fisheries, Yaeyama Branch, Okinawa Prefecture
Hiroyuki Kajihara	Curator, Aso Tanibito Ecomusee
Naoki Kachi	Professor, Grad. School of Science & Engineering, Tokyo Metropolitan University / Chairman, Ogasawara Research Committee / Representative, Consortium for the Interdisciplinary Study of Human and Nature Symbiosis in Island Systems
★●Shigefumi Kanao	Taga Town Curator
★●Mahito Kamada	Professor, Institute of Socio Techno Science / Department of Civil and Environmental Engineering, Tokushima University
★●Masahito Kamimura	Director, Shiraho Sakana-Waku-Umi Community Conference
★Masaru Kanda	Center Director, WWF Coral Reef Conservation and Research
★Koichiro Kuraji	Center Director, NPO Kuroshio Zikkan Center Center Director / Visiting Associate Professor, Kochi University
Noboru Kuramoto	Joint Representative, Yahagi River Forests Researcher's Group / Instructor, Tokyo University Forest in Aichi
Shigeharu Kogushi	Professor, School of Agriculture, Meiji University
★Seiji Kondo	Green Front Institute Ltd.
★●Mariko Sakamoto	Professor for Field Science Center for Northern Biosphere and Research Faculty of Agriculture, Hokkaido University / President, Yezo Deer Association / President, Hokkaido Native Horse Preservation Association
★●Tetsu Sato	Kamikatsu Satoyama Club / Environment & Town planning
★●Toshiaki Sawada	Professor, Faculty of Tourism and Environmental Studies, Nagano University
★Shiki Kobo Ltd.	Director of Environment & Town planning and Visiting Professor at Tokushima University
Motoko Shimagami	Susumu Nozaki, Representative Director
★●Mayuko Shimizu	i-i-network (sharing, meeting, mutual learning network)
★●Katsunobu Shirakawa	Researcher, Nagano University
★Toko Suzuki	Chief (Curator), Geihoku Kogen No Shizenkan
Katsuya Suzuki	Joint Representative, Yahagi River Forests Researcher's Group / Chief Scientist, Toyota Yahagi River Institute
Masatsugu Suzuki	Assistant Professor, Institute of Natural and Environmental Sciences, University of Hyogo / Researcher, Wildlife Management Research Center, Hyogo
★Akiko Sudo	Professor, Faculty of Applied Biological Sciences, Gifu University
★Hiroaki Sono	Executive Managing Director, Eaglet Office Inc.
Amane Takeuchi	Representative, Environmental Network Amami
★●Kazuaki Takahashi	Managing Director, IGETA TAKEUCHI Co., Ltd.
★●Daisuke Takahashi	Associate Professor, Faculty of Tourism and Environmental Studies, Nagano University
Hiroki Taniguchi	Researcher, Akajima Marine Science Laboratory
Akiyora Terabayashi	Researcher, Norinchukin Research Institute Co., Ltd. / Graduate School of Letters, Hokkaido University
Noboru Tomita	Researcher, Postgraduate Course, Graduate School of Environmental Studies, Tohoku University
Kenzo Nakajima	Director, NPO Tosa-no-umi Kyuental
★Masahiro Nagano	Chief Curator, Echigo-Matsunoyama Museum of Natural Science, Tokamachi City
★Koji Nakamura	Deputy President (in charge of contribution to society) / Center Director for Institute of Nature and Environmental Technology, Kanazawa University / Co-chair of Science Assessment Panel for Sub-global Assessment of Satoyama and Satoumi in Japan
★Hiroaki Niitsuma	Professor, Core Department Surface and Subsurface Instrumentation Laboratory, Postgraduate Course, Graduate School of Environmental Studies, Tohoku University
★Kenji Niwa	Tenei Village EIMY Yumoto Project, Society of Kawasaki-Sendai Wood Stove
Shinya Numata	Representative, Yahagi River System Forest Volunteer Association
★●Yoshimi Higa	Associate Professor, Department of Tourism Science, Graduate Schools of Urban Development Sciences, Tokyo Metropolitan University
Mayumi Fukunaga	Instructor, Onna-son Fishermen's Cooperative
★●Atsushi Makino	Assistant Professor, College of Sociology, Rikkyo University
Mitsutaku Makino	Professional Curator, Shiga Prefectural Lake Biwa Museum
★●Hiroyuki Matsuda	Researcher, National Research Institute of Fisheries Science, Fisheries Research Agency
★Takahiro Mano	Professor, Graduate School of Environment and Information Sciences, Yokohama National University
Koichi Mikami	Chief Researcher, Toyota Yahagi River Institute
Hirumune Mitsuhashi	Researcher, Nagano University
★Taisuke Miyauchi	Chief Scientist, Museum of Nature and Human Activities, Hyogo
★●Nobuya Miwa	Professor, Hokkaido University Graduate School of Letters
★●Shigeru Yanaka	Professor, Faculty of International Studies, Osaka Gakuin University
★Tetsuo Yanagi	Faculty of Regional Sciences, Tottori University Associate Professor
Kaoru Yamasuga	Head / Professor, Research Institute for Applied Mechanics, Kyushu University
Atsushi Yamaba	Representative Researcher for "Establishment of the Social System for the Healthy Coastal Sea Environment (Creation of Sato-umi)"
★Shinji Yamamoto	Department of Tourism Science, Graduate Schools of Urban Development Sciences, Tokyo Metropolitan University
★Takakazu Yumoto	Hiroshima Prefectural Technology Research Institute Forestry Research Center
★Takakazu Yumoto	Associate Professor, Field Science Center Faculty of Agriculture Iwate University
★Takakazu Yumoto	Professor, Research Institute for Humanity and Nature / Manager, Diversity Program
★●Tadashi Yogi	Yaeyama Fishermen's Association



Please contact a member or the Steering Committee members to join the Local Science Network for Environment and Sustainability.