

# SOUTH PACIFIC NEWSLETTER

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**KAGOSHIMA UNIVERSITY  
RESEARCH CENTER FOR THE PACIFIC ISLANDS**

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Cover photo: People who return from Weno Island to their island by a boat (by Shinichi NODA)

***EXPECTING MORE EXTENSIVE EDUCATION AND RESEARCH ACTIVITIES  
IN ISLAND AREAS***

Shinichi NODA

Director, Kagoshima University Research Center for the Pacific Islands

I will retire from Kagoshima University Research Center for the Pacific Islands in the end of March 2014. Since I started for my new assignment in the center in July, 1998, it means that I worked at 15 years and nine months in the center, and 37 years in Kagoshima University. The center started afresh with new scope of investigation and objectives in April 1998. The new center aimed to promote interdisciplinary studies on island and island-zones in Oceania and its surroundings.

My first visit to Micronesia was Yap Island on February 1999. The purpose of the visit was the preparation of a comprehensive scientific investigation using a training ship (Keiten-Maru) of Faculty of Fisheries. It was scheduled for the autumn. The festival “Yap Day” in order to continue customs and traditions of Yap was held during my stay. This visit became meaningful in subsequent my studies. Using Keiten-Maru, more than 30 researchers participated in the investigation made on Yap Island in 1999 and on Ulithi Atoll in 2001. The advantage of using the ship is that the ocean observation during the voyage, transport of the materials, and excavation of the research theme by researchers of different fields. As the dengue fever outbreak in Yap State, the Federated States of Micronesia was reported between June and July 1995. As a few investigations of mosquito fauna in the Federated States of Micronesia were conducted, I started the investigation of mosquito fauna in four states of the Federated States of Micronesia. I completed the investigation of mosquito fauna in 2012, and the results were released as papers. The review was published in “South Pacific Studies”.

In activities of the center, interdisciplinary researches on the islands area has been developed and implemented by the collaboration of researches of many faculties and research institutes of Kagoshima University. As a variety of human resources are gathered in the center, I am convinced that characteristic research and international exchange will be continued.

The center is contributing to education in the Kagoshima University. The center has offered a subject “An Island System” intensive course in Yoron Island from 2005 for general education course in addition to a subject “Island-Zone in the South Pacific”. The graduate education special program started in 2010. The center has played the central role of “Island Study Course” of graduate education. The center has offered core subjects “Island Study I” and “Island Study II”, and open subject “Field Study on Subsistence in Pacific Islands”. I am expecting the improvement of lecture contents.

I earnestly hope that the center can achieve its objectives, dedicated to the development of Oceania and its surrounding regions, and further the welfare of all people through its research activities.

## ***YAKUSHIMA: THE ISLAND OF HOPE***

Herman Hidayat

Visiting Professor, Research Center for Pacific Islands, Kagoshima University, Japan,  
(November 2012 to March 2013); Indonesian Institute of Sciences (LIPI)

Traveling makes someone fresh and getting inspired on ideas. For this reason traveling in particular space for instance in the beach and forest ecosystem or what so called “eco-tourism” is very popular in recent time in Japan. The object destination which is fully required both requirements sea side (beach) and forest ecosystem sceneries namely Yakushima island. Yakushima is categorized one of National Park and World Heritage in Japan. It located 60 km south-southwest of Kyushu mainland, Kagoshima Prefecture. As it known that Kagoshima owns 605 islands including 28 inhabited ones. Hence Kagoshima is very rich island among Japan Prefecture. As a specific Yakushima National Park and World Heritage is very unique ecosystem from viewpoint of water, biodiversity and fauna such as deer, monkey and birds, red and black turtle in Nagata beach. Besides, in collection of forest trees especially Japanese Cedar (Sugi Cedar) in Yakusugi land. One of biggest sugi cedar is Jomon Sugi, which a circumference of 16,4 meters, with a height of 25,3 meters and estimated to be from 3,000 to 7,200 years old. These collections on ecosystem of Yakushima are very fantastic that eventually affects on thousands of domestic and overseas tourists as well visit Yakushima.

Based on findings toward three actors of who run business of Minshuku (Japanese home style and accommodation), tourist-guide agency, and agro businessman. Among three actors business-they frankly argue that Yakushima is island for hope from viewpoint of refresh on ecosystem, climbing the mountain and diving in the sea and river stream sport getting income generating.

### *First actor related to Minshuku (Japanese home style and accommodation)*

Asada is (58 years old). He is owner of Minshuku Rokmeikan near Yakushima Airport, Anbo. He was born in Osaka and previously worked in Stock Security Exchange Bonds (Soken Toritsu) in Osaka. He decided to quit from his job before he was retired. The company gives early retirement fees about JPY 10,000,000 and he got also normal

retirement JPY 35,000,000. He married with his wife in 1980s and got one daughter and one son. Her daughter married and lives with her husband in Chiba Prefecture. His daughter owns one son. And his son still not married yet and works in Osaka. Their family visited Yakushima at least twice in a New Year and summer vocation in August.

He previously visited Yakushima as tourist and he interested in fishing area and no parking fees for boat in the beachside. The Yakushima Island provides with a fascinating fishing area and much fishes production and no parking fees. So far while he stayed in Osaka, he should pay his boat ship annually JPY 800,000 for parking fees. This background eventually interested his decision to remove in Yakushima Island. He bought land 600 Tsubo, approximately 2,244 meters width from private company. He pays for the land more than JPY 40,000,000 .His land is far from the highway 200 meters, but very strategic near the Yakushima Airport in Anbo. He finally established Minshuku in 2008. The Minshuku provides with a good design and architecture, owns three rooms and the capacity for 12 persons, and onsen room for taking bath. Besides, the rest of his land provides for timber hand crafts making and the products such as ball point accessories, Hazaire (place for smoking ashes) and key holders are sold to visitors. But, he opens training to make cups, key holder, plate and statues from timber Yakusugi waste for visitors. Therefore for this training he provides some tools and machine equipment from cutting wood, design and crafting timber (Fig. 1).



**Fig. 1. The interior design of Minshuku Rokmeikan, near Nagamine, Anbo.**

The philosophy of his business is spirit; survive with a good management; a diligent work, keep in touch with visitors and give excellent service to customer (interview on 5 February, 2013). Based on his experience for this strategy most visitors visit again for 2-3 times to his Minshuku. The visitors to spend night in his Minshuku usually contact with internet and made reservation 2 months prior the time in peak session, especially for golden week holidays (in May) and for summer (July-September). The price reaches JPY 7,000 includes for meal in dinner and breakfast per day. The Minshuku business is very optimist to be progress with a good management and gives excellent service to customers. So far his business not yet expands for the making branch in Yakushima, Island because limited capital and manpower who ready for temporary works.

### *Second actor related to Tourist Guide Agency*

Matsumoto Takashi acts as President of Yakushima Nature Activity Center (YKNA/Tour Agency). He previously stays in Tokyo. Now his wife acts as 'editor' of the Journal 'Shemeno shima' (The Life in island). He likes to stay in Yakushima island, because the environmental sphere, a good for education his children and no pollution. He thought that tourist sector is rapidly developed and will be challenging industry, inherently appreciate the excellent on environment by urban people.

The company was established in 1993. He needs just 8 months to decide to establish company, after he eventually carries out field work and feasibility study to start the business. The philosophy of his company is to keep the ecosystem namely nature, forest and waters. Besides is how to actively involve tourists to appreciate the mindset of tourist to keep the nature well. In this sense eco tour the most favorite target for tourist is going to 'Jomon Sugi'.



**Fig. 2. Profile of owner Yakushima Nature Activity Center.**

Because the tourist could see ecosystem of forest, landscape, geology, plants, animals, insect interaction, etc. Or tourist by traveling to Jomon Sugi with takes about 5-6 hours by walking can utilizes 5 senses eyes, nose, hearing, taste, and hand. Yakushima National Park and World Heritage could represent as complete environmental ecosystem such as forest, plants, waters and animals (Fig.2).

### *The contribution*

The company has obligation to keep and conserve nature program by giving lecture to Shogakko, Chuogakko and Kotogakko (from elementary until high school) at least once annually. The subject of training and discussion with pupils in school consists of practical in the field on ecosystem interaction. Besides, the lessons on eco guide how to keep pupils' mind in order to appreciate the nature. Among of high school pupils are interested to become guide for tourist and they can join with the company. This company is open for any guide who would like to practice and get income generating. The rationale is Yakushima is big resources and still interesting for many tourists to visit here.

### *The manpower*

The permanent staff of the company is 4 persons. But the guide profession is around

200 persons. They can join with the company especially in golden time (in May) and in summer time (June-August), while the peak of tourists visit Yakushima for hiking, climbing the mountain, play of Kayak in Anbo and visiting Nagata Inakahama for seeing turtle in the beach. In 2012 in July-September tourist reached 1,300 visitors/per day. Ten days in September tourist spend 2 and 3 days, reached 300-500 people. The flood of tourist in summer has been made the company was very busy to give guide service. The guide fees for one day trip to Jomon sugi costs JPY 15,000/per person.

The peak of tourist to visit “Jomon Sugi” in summer and mostly spend one night, eventually consider to discuss a regulation to bring “Portable toilet” and to pay every tourist JPY 1,000 to enter the Jomon Sugi area to maintain the environment and nature. The stakeholders related Tourist Association includes the travel agency Hotels, Individual Hotel, NGOs on Environmental nature, Ministry of Environment, Branch Office, Forestry Agency have been invited by Yakushima Town Office to discuss the regulation to bring portable toilet and entrance fees this year 2013. According to the Yakushima Cho (town) Officer will be decided this year. So far up now the company no paying Tax to Yakushima town office. The company just voluntary gives donation to Yakushima office town.

### *Third actor related to Agro business (Orange farm)*



**Fig. 3. Writer and the owner of Tankan Orange Brand in Mugio, near Anbo.**

The farmers own land is outside the national forest Agency of Yakushima. Local farmers occupied the land which is the border of national forest since a long time. According to the informant their land originally comes from their grandparents (third generation). In Mugio district near Anbo live 156 households. The amounts of 30 percent are categorized as farmers. In 30 years ago approximately in 1993, while Yakushima Island was decided to be World Heritage, most the farmers cultivated orange farm and were very fruitful and productive. But recently is different, most of them are become an aging society (65-70 years old) and no regeneration. In contrast, most their young generation now works in Kagoshima City and other cities. Now still left a few households still continue working on orange farm. For instance, Michihiro, 60 years old and his wife Chiyomi 58 years old. Michihiro has two daughters (Fig. 3). One of his daughters has been married and now she and her husband would like to continue working

as farmer. This family owns 4 ha of orange farm area.

Michihiro previously worked as shop seller in Miyanouura. He gets more experiences in agricultural local products, distribution and marketing of agricultural farm. Therefore he is familiar with trading and got license certificate of agricultural management from institutional training in Kagoshima City, before he finally decided as agricultural farmers. In operation of farming, this family support by volunteers from Tokyo Agricultural University. As an illustration in 2012, the volunteers work temporary in orange farm for 1- 2 months with no salary, just get accommodation. According to Daisuke, one of informant, he prefers to be volunteer to learn in the field for practical farm, production, distribution and market. This valuable experience is necessary for his future job, while he wish to be entrepreneur.

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**Fig. 4. Orange trees owns by Tankan Brand in Mugio.**



**Fig. 5. Tankan Brand of Orange Company.**

Actually the government of Kagoshima Prefecture throughout Yakushima Cho Office gives an economic ‘incentive’ to the farmers, especially for orange farm. The incentive has been given ‘subsidy’ to farmers no direct money-but by making fence about 50 percent from its cost to protect monkey for maintaining farm. Besides, government also establishes water supply pipe under the road to water farming area. The rationale is highlights on maintenance the brand image, that Yakushima Island is the largest orange production in Kagoshima Prefecture. Therefore ‘Tankan orange’ is very fruitful and fascinating for ‘Omiyage’ (special gift) for tourists and display in various shops in Kagoshima City, particularly in Miyanoura and Anbo.

Philosophy of “Tankan’ Orange highlighted should be sustainable business. Therefore to achieve the aim the company share knowledge to the young generation, especially who wish to explore the voluntary work for orange farm. The company also develops on the principle teachings on mutual help, understanding, and friendship, to deliver the product over Japan market on time, entrepreneurship, and accountable management. The company has been prepared for regeneration and be able to compete with other companies in the future. To implement this aim, the Tankan Company is open for any students to practice an agricultural principles, production, and management. Because this company has success to maintain her existence as orange farm production and other processing industries from orange materials such as juice orange, ice creams, chocolate and sweets. Processing industries economically is viable, and give additional values such as income generating, job creation and diversification business.

The constrain of orange farm in the field facing a threat because of growing diseases such as the coming of birds, monkeys, heavy rain and sometimes occurs Taifu (storm) in the winter time.

Finally I do hope the existence and development of Yakushima Island as National Park and World Heritage is properly maintained and accountable as “eco-tourism” destination among domestic and overseas tourist as well. It is necessary to highlight ‘collaborative’ management among stakeholders movement from the viewpoint of central and local government, tourist agency, hotel and restaurant association, transportation association, farmers association, national park management officer and so on.

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### International Symposium

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2 July 2013

Kagoshima University

#### **Yanagida Kunio’s Folklore, Re-Overlooking Sea-Road of the East Asia**

- 12:30 Greeting  
Sueng Man NA (President of Comparative Folklore society)  
Shinich NODA (Director of Research Center for the Pacific Islands)
- 12:40 Seen as the photos of, folklore and life in Amami Archipelago  
Yoon Sun LEE (Research Center for the Pacific Islands, Kagoshima University)
- 13:10 Yanagida Kunio’s “Kaijyo no michi”: 100 years form “Kainanshouki no tabi”  
Hidedoshi YANAGAWA (Kagoshima University)
- 13:50 As a metaphor “Kaijyo no michi”: Imagination space of poetic language  
Satodhi UDO (Kagoshima University)
- 14:30 Coffee break
- 14:40 Characteristics and music method of *shima uta* in the Amami islands through comparison of Korean music  
Hye Jung KIM (Kyunggi Educational University)
- 15:10 Disaster prevention and community relations in the Amami islands  
Xian Chen MENG (Northeast Financial and Economic University, China)
- 15:50 Social status of *Danggol* (Korean Shaman) and *Noro*  
Kyung Yub LEE (Mokpo University)

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## International Symposium

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6 July 2013

Kagoshima University

### **The Power to Change the Island Society: Information and Communications Technology to Promote the Remote Islands**

The utilization of information and communications technology (ICT) is expected to fix various difficulties of remote islands, and it is estimated to be an effective tool to promote the islands' culture, community, industry, education, medicine, welfare, and so on.

For instance, the broadband by which we can access to the internet at a high speed is thought to be essential to improve living standards, economic development, administrative efficiency and digitization. When a broadband environment is prepared, it is possible to promote contents industries that do not require any logistics operations, offering tourist information as well as selling special local products over the internet. Internet can narrow the cultural and educational gap by providing various educational opportunities through e-learning and acquiring necessary information such as news, weather reports, and even furthering exposure to entertainment such as music and movies. The development of broadband infrastructure in remote islands has not yet finished and not all residents of remote islands can receive the benefits of the broadband connection. However, the broadband environment is gradually becoming widespread and we can observe some advanced utilizations of ICT in remote islands.

ICT carry the potential to be the ultimate tool to close various divides in remote islands. In this symposium, we would like to review how ICT was developed, how it will be utilized, and any discuss considerations for the future. We look forward to your proactive and constructive contribution in the discussion of new possibilities to promote the remote islands using ICT.

#### **Keynote Speech: Does computerization of remote islands produce innovation?**

Masato YOKOYAMA (Nagasaki Institute of Applied Science, Faculty of Environment and Architecture)

In less fortunate areas including remote islands, the communication infrastructure and other frameworks are gradually improving. With the rapid advance of information and communication technologies, these less favored areas are entering a new phase of progress in the field of regional computerization. In fact, various projects are being implemented with

the goal of promoting utilization of ICT in remote islands all over Japan. However, does computerization really contribute to the solution of local problems, regional vitalization and other forms of regional innovation? We would like to discuss the current challenges and future trends of computerization by taking the remote island area in Nagasaki Prefecture as an example.

### **1: Cloud computing and the increased availabilities of advanced ICT services in remote islands**

Hitoshi MITOMO (Graduate School of Asia-Pacific Studies, Waseda University)

With the collective efforts of the central and local governments and concerned parties, broadband is now available even in remote islands in Japan. However, it is believed that advanced ICT applications or services are not available there due to smaller population size and many other disadvantaged conditions. One of the reasons for lower utilization of ICT would be that solutions to local problems have been sought within a local area. Even if an ICT application or service is considered to be efficient as a solution to a local problem, it cannot be realized in most cases because its business feasibility is extremely low in an area with a small population. However, if an application can be shared with other areas to seek a scale merit, the business feasibility to supply the service will be increased and then it can become available even on a small island. Cloud computing has made this kind of sharing possible. This presentation focuses on education and shows how an efficient service can be supplied in remote islands by utilizing the cloud computing system.

### **2: The elimination of zero-broadband areas: The most advanced broadband islands**

Masato MASUYA (Computing and Communications Center, Kagoshima University)

Government financed and managed broadband access services have finally launched on three islands in Mishima village and seven islands in Toshima village. These services have long been in demand. In Mishima, submarine cables were newly laid and easy-to-bury FTTH cables have been used on each island. In Toshima, a leased circuit service has been adopted as a backbone network and fixed wireless access systems have been deployed for access lines. Now, the broadband Internet access provides its services to every household in Mishima and Toshima. He will introduce the most advanced broadband infrastructure of these islands which have eliminated their zero-broadband areas.

### **3: The education cloud connects Yoron town elementary schools to the rest of the nation, supported by NTT Group companies**

Fumihiko NISHIDA (NTT Learning Systems Corporation)

A field trial utilizing education cloud service, tablet PC and interactive whiteboard has

been conducted in Yoron Town, the southernmost island of Kagoshima Prefecture, with NTT Groups since FY2011. Broadband network is already used nationwide at lower price. Although the ICT is being deployed in public services such as education and medical/health care, its utilization is relatively lower than that of foreign countries. NTT Groups collaborated with ten public schools in five districts in order to launch the "Education Square x ICT Initiative" to find practical opportunities and identify potential issues in order to promote the ICT utilization in education. I will share the findings from the trials conducted in three Yoron elementary schools and discuss the future of integrating broadband in education on islands.

#### **4: IT industry fever miracle on Amami-Oshima**

Shinichiro KATSU (ICT Industry Incubation Manager, Amami City)

The Amami Islands Group has identified Tourism, Agriculture, and IT as an industrial development triad, and Amami City opened the business incubation facility "ICT Plaza Kasari" in April 2012 as a base for IT industries.

This facility offers 8 individual rooms. It has been extremely popular to a point where there were no vacancies 6 months after the facility opened, and over 15 people have been newly employed.

Since the vacancy rate is high in many facilities for business incubation across the nation, ICT Plaza Kasari attracts many curious visitors from around the country.

Shinichiro Katsu, Incubation Manager, ICT industry, Amami City will explain how to attract companies and jobs to the region, and reveal the secret of facility operations.



**Prof. YOKOYAMA, Prof. MITOMO, Prof. MASUYA, Prof. NISHIDA, and Prof. KATSU  
(from left to right)**

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## Open Seminar

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14 December 2013

Kagoshima University

### **Living Thing and Person Health on Island according to Environmental Perturbation: Current State and the Future**

Living thing, and person's living and sicknesses have changed dynamically according to the change of the environment. The island where the environmental perturbation is received easily can be called the model of suitable in thinking about the influence. Each specialist who is actually investigating plant according to the environmental perturbation, animal, helminthes, and person's livings and sick current states in the solitary island of Kagoshima Prefecture field show past and present status, what change by what cause, and the problem in the change. After these are based, future tasks and correspondence are examined. Information to which the suggestion is abundant can be offered to the event with the possibility of staying up in the entire Japan, and occurring in the future already by receiving the influence of the environmental perturbation easily, and examining the case in the island that appears in shape with a visible result as a model along with the environmental perturbation.



**Prof. TAKEZAKI, Prof. NODA, Prof. SHIOTANI, and Prof. TERADA (from left to right)**

## **1: Vegetation change in islands brought by the change in the activity of the person: The hometown ground and the hometown mountain are now**

Hitoshi TERADA (Faculty of Education, Kagoshima University)

The population of Japan is swelling up to 130 million people now at the early stage of the age of Jomon though was 20,000 people in the estimate. However, depopulation advanced in the remote place including the islands part for changing the industrial structure and the population outflow etc. to the city in the 1955's. Vegetation that is basic of natural environment has changed because the agriculture and forestry industry of the major industry that has relied on the resource of the hometown mountain declines, and it changed an industrial form. That is, the uncultivated field of hometown mountains proceeds the vegetation succession, disappears, the firewood mountain becomes a secondary forest near the wildwood, and Takeyama has done the reckless driving expansion. Moreover, alive what is leveled the surrounding of rolling and the cropland because of efficient management of agriculture and loses the levee, and exists in the crevice environment doesn't live easily. In addition, Kawabe reclaims, decreases the marsh, the coast part is scooped out by the beach erosion, and the maritime vegetation has been changed.

## **2: Climatic variation and animal event in Kagoshima Prefecture: The influence for Yakushika and mongoose event by the incidence of the cold event**

Katsunori SHIOTANI (Wildlife Measures Team, Environmental Living Thing Section, Environmental General Foundation Kagoshima Prefecture Technological Society)

The number of "Furi-mongoose" individuals is thought that the possibility to be minimized is high by the capture business of Kagoshima Prefecture though it has misgivings about the "Furi-mongoose" population in the Kagoshima City Kiire district that is the exoticism when the increasing tendency is actualized in 2009, and the ecosystem integrity in the region is made dangerous. When the process of minimization was verified, it was suggested that the increasing rate not have risen more than the expectation. As for the factor that the population in the Kiire district had stayed by a low increasing rate, it is 1) existence and 2 of the competing kinds) existence and 3 of the natural enemy) the vegetation structure and 4 including the man-made forest) geographical features and 5 by the Kagoshima graben) Though the low degree etc. of production through the four seasons of the living thing of food are thought, there is a possibility that the cold event (Winter snowy at low temperature) where thermal belt in addition to them is visited influences These are habitat factors that do not exist in Amami Oshima and main Okinawa island to which outpatient population extended everything similarly.

It is in the situation that increases by misgivings about the influence on local vegetation and a scarce plant at present about "Yakushika" to live in Yakushima Island. The monitor of

the density that changes and attaches is being done by the Ministry of the Environment and Kagoshima Prefecture at the same time as capture specific plan being set by Kagoshima Prefecture, and being advanced by the effort such as the Yakushima-cho, local hunter associations, and the Forestry Agency. There are still a lot of unclear matters on the direct influence to “Yakushika” of the coming cold event in this prefecture with a lot of clement regions at several decades’ intervals in the analysis of the density pattern. It is necessary to clarify why the population of “Yakushika” increases till causing of the influence on extreme vegetation in recent years, and why it was not observed in the past.

Based on the above-mentioned case, it will be argued on the need for the attention about the different change on the invasion, colonization, and increased number of various living things including the exoticism with a hunting pressure and the change's in a peculiar environmental geometry different from the past in addition to the climate change influence.

### **3: Parasite: Parasitic diseases before the global warming is an issue**

Shinichi NODA (Research Center for the Pacific Islands, Kagoshima University)

Tropical diseases such as malaria occurs in Japan along with the global warming are a concern. The main reason is that the number and distribution area of mosquitoes that transmit malaria increase in accordance with the warming. By the number of malaria cases throughout the country in 1938-1934, the number of patients in Kagoshima Prefecture is less than Hokkaido, and patients occur often in Shiga and Fukui Prefecture. I consider the process and why malarial patients decreased in number in Japan. I also consider the process of filariasis in Kagoshima Prefecture.

### **4: The change of lifestyle and disease with the change of environment**

Toshiro TAKESAKI (Graduate School of Medical and Dental Sciences, Kagoshima University)

Amami island region of Kagoshima Prefecture, Japan, has a relatively higher proportion of longevity population. On the contrary, their life span is not concordantly long, and the mortality rate among middle aged men (40-64 years) is 1.5 times higher than the Japanese standard rate. The mortality rate among aged women (65 years and over), however, is 0.9 times lower than the Japanese standard rate. The rate also shows an increasing time trend during these 20 years.

Why does the mortality rate among the middle-aged men of Amami island region increase? I think the answer will be obtained from the environment change. Various food materials were imported from the mainland according to the transportation development and increased the chance to take high-energy and/or fatty foods. Road development and farm mechanization produced more convenience, and decreased daily momentum.

We are conducting an epidemiological study for lifestyle disease prevention and longevity in Amami regions and found that the proportion of obesity population was two times higher than the Japanese mean rate. The proportion of the people with high blood cholesterol levels is rapidly increasing.

The island has the characteristics to be easily influenced by the environmental change. The change related to not disease but health is required at the present day when lifestyles are changing with the environment.

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### Research Seminars

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#### **No.136, 18 February 2013**

##### **“My ecological research of a tropical forest during the last 40 years”**

Tsuyoshi YONEDA (Faculty of Agriculture, Kagoshima University)

[ABSTRACT]

My ecological research could be started at the Pasoh Forest Reserve in Peninsular Malaysia in 1972, and be followed at Ulu Gadut, Padang area in West Sumatra from 1980. Forest area in Sumatra has been reduced by half during the period from 1985 to 2007. A forest in Ulu Gadut has been also largely damaged from illegal logging and severe drought weather after the middle of 90's. These dynamic changes of stand structure could be observed during the period through field observation. Big canopy trees have suffered from high stress under unstable environmental conditions in a fragmented tropical forest because of their high physiological activities. I now interests in behavior of these big trees. Regeneration process at a selective logging site in the tropics is my present research topics in Pasoh. The outline of these researches would be presented.

#### **No.137, 15 April 2013**

##### **“My 40 years fascinated with the foraminifera”**

Akio HATTA (Faculty of Education, Kagoshima University)

[ABSTRACT]

It is the beginning of “foraminifera research” that the foraminiferal fossil came out from the field, when I was student. When I lived in Chiba Prefecture, I investigated the foraminiferal fossil from Boso Peninsula, and the foraminiferal fossil in the Late Paleozoic of Thailand. After I came to Kagoshima University, I investigated the fossil foraminifera from southern part of the Tanegashima, and recent foraminifera from various parts of

Kagoshima. When I stayed in the University of the Ryukyus as a researcher about ten months, I studied the foraminifera of the “*sekisei-syou-ko*”(coral-reef lagoon), and created the monograph of recent foraminifera of this lagoon. Since the “*Nankaiken*” of the past of “*Tousyoken*”, I have joined the investigation party to Republic of Palau, Federated States of Micronesia, and Papua New Guinea, and have investigated the recent foraminifera. As a person of science education, I also studied and proposed about the practical use to the science education of the foraminifera. I introduce and explain the foraminifera produced from the investigation area in this lecture.

**No.138, 11 May 2013**

**“Ecosophy of Felix Guattari and contemporary philosophy”**

Stephanne NADAUD (CME de Montreuil)

[ABSTRACT]

Felix Guattari (1930-1992) is the thinker of the late 20th century who was an active psychoanalysis in various fields, social movements, and political thought. After the Fukushima nuclear accident in 2011, an international trend to re-evaluate the ecological thought of Guattari is growing. The thought of Guattari, which has pursued the way of knowledge (Ecosophy) to re-capture as “ecology” the mind, the society and the environmental not to cut them off each other, is an important guideline in considering the way of the modern world. In this presentation, through the decoding of such thought of Guattari, I would like to discuss the direction and role of the contemporary philosophy in the ecological problem.

**No.139, 27 May 2013**

**“Cultural characterize of “Namdo” in Korea”**

Yoon Sun LEE (Research Center for the Pacific Islands, Kagoshima University)

[ABSTRACT]

Namdo means Southwest region in Korean peninsula. The configuration system of the south east countries is called “Northeast Asia Mediterranean”. It explains the different styles in the south seas of Korea which has more than 3,000 islands. The first point is about tidal flats and many islands. There are a lot of salterns (salt field). The second point is food. The famous salted sea foods can expand in the triangle area in south Asia, south China and Japan and Korea. Namdo people like Kimchi with hot peppers nowadays, but north region (North Korea) people don’t like red peppers. So, it can be easily defined if the food is from the north or from the south. The third is ritual and dance of shaman. In Korea, there are two styles of Shamans which is divided by the Han River, North and South. Northern Shaman’s dancing style is jumping and skipping and uses about 20 colorful clothes in just one ritual.

Southern Shaman's wears only one or two garbs and dominated by the color white. She only sings songs, plays music and dances. The fourth is song and music. According to my observation, Okinawa and Amami Oshima has some similarities on shaman practices. The last is funeral and burial. There are two different styles of Burial in Namdo. The cultural styles that we have learned today have currently been combined. I have much interesting about cultural relevance of the southern Korea and southern Japan cultures. It is admittedly sea and island culture from South Pacific.

**No.140, 17 June 2013**

**“Reading F. Scott Fitzgerald from the Celtic perspective”**

Natsuo CHIYODA (Research Center for the Pacific Islands, Kagoshima University)

[ABSTRACT]

Many studies on F. Scott Fitzgerald mention the writer's Irish blood which comes from his mother, but we can hardly find what actually analyzes how it worked in Fitzgerald's works or his identity itself. Paying attention to that Celtic background, in this presentation, I'd like to especially focus on the imagery of “island” in the works, which is the basic element of Celt as well. As many “islands” in *The Great Gatsby* are symbolically and effectively used, “island” can be the key to the broader theme “what is Fitzgerald's own romanticism?”

**No.141, 30 September 2013**

**“On the site of the Festival of Pacific Arts”**

Hikaru KOIDE (Library of Pacific Arts)

[ABSTRACT]

It was in 1972 that the 1st Festival of South Pacific Arts was held in Fiji. 40 years have passed since then, and the 11th Festival was held in Solomon Islands last year. Koide has been in charge of filming of this festival since the 4th in 1985 when the festival changed its name to Festival of Pacific Arts.

How one is involved in this festival may depend on his or her position. Being an reporter, one will confront issues that would not be normally recorded officially and will have to deal with them beforehand, or on the spot.

This report surveys the past festivals and their organizational features while referring to those off-the-record issues. For the purpose of time saving, the respective features will be summarized in the form of a resume. Instead, a video images will be prepared that will convey the actual mood of the festivals more vividly.

**No.142, 21 October 2013**

**“The cultivated and domesticated plants in Prehistoric Japan and the origins seen from recent paleoethnobotanical studies”**

Hiroki OBATA (Faculty of Letters, Kumamoto University)

[ABSTRACT]

As well-known Japan is one of “the secondary origins” of cereal cultivation, represented by rice and millets, in Prehistoric East Asia. In general speaking agricultural society in Japan was established with rice cultivation on paddy field introduced from the Korean Peninsula in the earliest Yayoi Period. However some theories represented by “Shoyoujurin-bunka-ron” argued by a geographer, Takaaki Sasaki have been emphasizing that some domesticated plants such as taro and millets were introduced from South Asian continental zone or Southern China and cultivated on slash-and-burn fields before Yayoi Period and the agricultural complex is a significant foundation for forming the modern Japanese culture. Although some plants were cultivated in Jomon Period surely and then the theory is not at all a fiction, some unreliable domesticated plants which have not been demonstrated through the recent scientific inspections sufficiently are contained. Since 2000 the paleoethnobotanical studies especially on Jomon Period have been progressing with new effective methods to seek and to determine the domesticated plants such as “impression method” and AMS 14C dating as well as the development of identification methods for seeds and pollen. For example, using these analytical methods it is demonstrated that some indigenous plants, such as barnyard millet, adzuki bean, and soybean were domesticated by Jomon people. Before the discoveries of the bean impressions in the Jomon pottery these beans had been recognized to be introduced from China in Yayoi Period.

In the presentation the cultivated and domesticated plants in Jomon and the origins will be shown mainly based on the results of studies using “impression method”.

**No.143, 25 November 2013**

**“Mesozoic to Cenozoic Vertebrate fossils from Kyushu Island and Southwest Islands”**

Hideo NAKAYA (Faculty of Science, Kagoshima University)

[ABSTRACT]

The oldest vertebrate fossil from Kyushu Island and Southwest Islands was carnivorous dinosaur from the Early Cretaceous (130 million years ago) of the Mesozoic.

Kyushu Island and Southwest Islands were a part of the Asian Continent since the Mesozoic. Mesozoic dinosaurs and Early Cenozoic mammals were identified similar taxonomic group to continental vertebrates.

The Japanese Islands was separated from the Asian Continents after the Middle Miocene (15 million years ago) of the Late Cenozoic. Since this age, vertebrates started characteristic evolution in the Japanese Islands and immigrated from/to continent during low sea level age, and then extant vertebrate fauna of Kyushu Island and Southwest Islands were established.

**No.144, 9 December 2013**

**“Communicating climate change, disaster and crisis in the Pacific”**

Evangelia PAPOUTSAKI (Unitec Institute of Technology, New Zealand)

[ABSTRACT]

The Pacific Islands region has been on the focus of the climate change debate in the last few years. Several islands are already experiencing the impact of climate change on their small economies, cultures and fragile natural habitat. This has brought to attention the need to establish stronger communication mechanisms and install a range of media and communication platforms to provide access to early warning systems before a disaster and communication during disaster response. As the complexity of the media and communication environment of this region increases with the arrival of new technologies, questions remain about the appropriateness of ICTs for use during emergencies and disasters. There is also a greater need for understanding the possibilities of integrating ICTs like mobile phones into media and communication plans for disaster response technologies like radio.

This research presentation is based on the PACMAS State of Media and Communication Report 2013, undertaken across 14 Pacific Island nations and through a partnership between RMIT University (Australia), the University of Goroka (Papua New Guinea) and UNITEC (New Zealand). The presentation focuses on aspects of climate change and emergency and crisis communication systems through the research’s key components (media policy, systems, capacity building and content). It gives some key findings that highlight the urgency of developing and sustaining systems of communication vital for these island nations.

The research was guided by the principles of Communicative Ecology and Communication for Development (C4D) that deliberately encompass all forms and modes of communication, including community radio, information and communication technology (ICT) initiatives, and processes such as community dialogue along with the more traditional mass media.

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## Field Research

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Interdisciplinary research in Chuuk State, Federated States of Micronesia in August, 2013.

### Members & Themes

Shinichi NODA (Research Center for the Pacific Islands, Kagoshima University): Survey of Mosquito Habitats on Piis Island

Shunsuke NAGASHIMA (Research Center for the Pacific Islands, Kagoshima University): Research on the Improvement Efforts by the Public Sector about Health Care, Public Sanitation and Waste Management

Yoon Sun LEE (Research Center for the Pacific Islands, Kagoshima University): Study on Local Dances and Songs in Chuuk

Masashi YAMAMOTO (Faculty of Agriculture, Kagoshima University): Investigation of Native and Local Citrus Grown in Chuuk

Kei KAWAI (Research Center for the Pacific Islands, Kagoshima University): Shell Colour Polymorphism in Populations of the Intertidal Gastropod *Nerita plicata*

Motohiro KAWANISHI (Faculty of Education, Kagoshima University): Ecological Character and Species Diversity of Vegetation in Chuuk State

Ryuko MORI (Faculty of Medicine, Kagoshima University): Health Condition of Local People in Chuuk, FSM

Sota YAMAMOTO (Research Center for the Pacific Islands, Kagoshima University): Food Survey on Piis Island



**Citrus investigation**



**Lecture at College of Micronesia (Weno)**



**Local songs collection**



**Shell investigation**



**Mosquito investigation**



**Discussion with staffs of Public Health, Chuuk**



**Food survey**



**Vegetation survey**

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## Recent Publications

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+++Journal+++

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Research Papers

KADER Md. A., BULBUL M., HOSSAIN Md. S., YOKOYAMA S., ISHIKAWA M. and KOSHIO S.:

Improved Utilization of Plant By-Products Mixture by Supplementing Dietary Bamboo Charcoal for Juvenile Amberjack *Seriola Dumerili*

JOHNSON H. and KUWAHARA S.: Neo-Traditional Ensemble Drumming in the Amami Islands: Mapping New Performance Traditions

Notes

INOUE-SMITH Y.: Aspirations for Career and Marriage among Young Japanese Women: The Case of Okayama University

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Research Papers

HIDAYAT H. and YAMAMOTO S.: Papua's Threatened Forests: Conflict of Interest Government versus Local Indigenous People

GIRSANG W.: Socio-Economic Factors That Have Influenced the Decline of Sago Consumption in Small Islands: A Case in Rural Maluku, Indonesia

Review

NODA S.: Mosquito Fauna in the Federated States of Micronesia: A Discussion of the Vector Species of the Dengue Virus

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