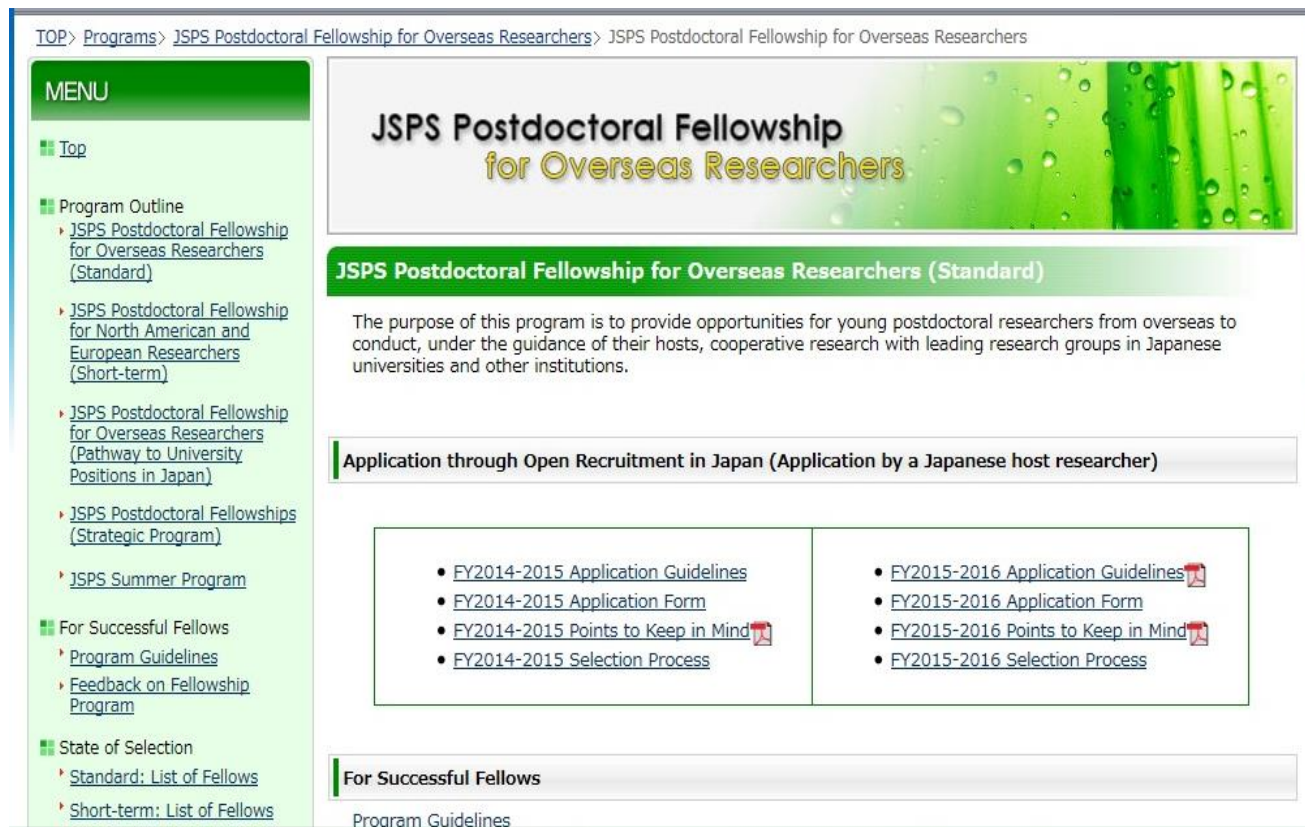


# **Research Experience in Japan as a JSPS Postdoctoral Fellow**

**Dr. Kay Thwe Hlaing**  
**Lecturer, Department of Geography**  
**University of Yangon**  
**[kthlaing@gmail.com](mailto:kthlaing@gmail.com)**

# Before Applied the JSPS Postdoctoral Fellow

1. Got JSPS Postdoctoral Fellow information from Professor Dr. Haruyama Shigeko
2. Checked from Internet
3. Downloaded the application forms and filled all forms
4. Sent all application forms to Host Professor from Japan



TOP > Programs > JSPS Postdoctoral Fellowship for Overseas Researchers > JSPS Postdoctoral Fellowship for Overseas Researchers

## JSPS Postdoctoral Fellowship for Overseas Researchers

### JSPS Postdoctoral Fellowship for Overseas Researchers (Standard)

The purpose of this program is to provide opportunities for young postdoctoral researchers from overseas to conduct, under the guidance of their hosts, cooperative research with leading research groups in Japanese universities and other institutions.

#### Application through Open Recruitment in Japan (Application by a Japanese host researcher)

<ul style="list-style-type: none"><li>• <a href="#">FY2014-2015 Application Guidelines</a></li><li>• <a href="#">FY2014-2015 Application Form</a></li><li>• <a href="#">FY2014-2015 Points to Keep in Mind</a></li><li>• <a href="#">FY2014-2015 Selection Process</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">FY2015-2016 Application Guidelines</a></li><li>• <a href="#">FY2015-2016 Application Form</a></li><li>• <a href="#">FY2015-2016 Points to Keep in Mind</a></li><li>• <a href="#">FY2015-2016 Selection Process</a></li></ul>
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#### For Successful Fellows

[Program Guidelines](#)

**MENU**

- Top
- Program Outline
  - ▶ [JSPS Postdoctoral Fellowship for Overseas Researchers \(Standard\)](#)
  - ▶ [JSPS Postdoctoral Fellowship for North American and European Researchers \(Short-term\)](#)
  - ▶ [JSPS Postdoctoral Fellowship for Overseas Researchers \(Pathway to University Positions in Japan\)](#)
  - ▶ [JSPS Postdoctoral Fellowships \(Strategic Program\)](#)
  - ▶ [JSPS Summer Program](#)
- For Successful Fellows
  - ▶ [Program Guidelines](#)
  - ▶ [Feedback on Fellowship Program](#)
- State of Selection
  - ▶ [Standard: List of Fellows](#)
  - ▶ [Short-term: List of Fellows](#)

Total Application : 1041 persons  
 Selected Persons : 110 persons

# Award letter and Certificate of Financial Support from JSPS on 9<sup>th</sup> August, 2012

**独立行政法人 日本学術振興会**  
**JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE**  
 8, Ichibancho, Chiyoda-ku, Tokyo 102-8472

(Award Letter)  
 JSPS/FF1/184  
 August 9, 2012  
 ID No. P 12302

Dr. Kay Thwe HLAING  
 Department of geography, Yangon University, Yangon, Myanmar  
 MYANMAR

RE: FY2012 JSPS Postdoctoral Fellowship for Foreign Researchers  
 Dear Dr. HLAING:

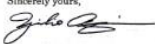
I am pleased to inform you that the Japan Society for the Promotion of Science (JSPS) has decided to approve the application of Prof. Shigeko HARUYAMA, Mie University, and to award you a fellowship under the "FY2012 JSPS Postdoctoral Fellowship for Foreign Researchers" to conduct research in Japan under the leadership of your host researcher for a period of 24 consecutive months. Regarding the terms of the fellowship, please see the attached "Certificate of Financial Support."

For this Fellowship award to be valid, you must start your fellowship in Japan within the period of September 1, 2012 through November 30, 2012.

Please note that this award is valid only if you obtain your Ph.D. degree before your Fellowship commences. Following the guidance on the page E9 in the enclosed booklet "JSPS Program Guidelines", please send us a copy of your doctorate certificate by the mentioned deadline. Otherwise, your Fellowship will become invalid.

After reading the "Guidelines," if you agree to all of the conditions stipulated therein and decide to accept the Fellowship, please sign the "Notice of Agreement" and "Notice of Acceptance" (Form-A-1, A-2) enclosed within the "Guidelines" and send it to JSPS via your host researcher.

In future correspondence with JSPS, please use your above-indicated ID number.

Sincerely yours,  
  
 Dr. Yuichiro Anzai  
 President

Enclosures: 1. Certificate of Financial Support  
 2. Program Guidelines (FY2012)  
 3. Air Ticket Application Information  
 4. A Guide to the Insurance Policy  
 5. An Extract from the JSPS Law

cc: Prof. Shigeko HARUYAMA, Mie University

**経費負担証明書**  
 (CERTIFICATE OF FINANCIAL SUPPORT)

学振交第 1ー184号  
 August 9, 2012  
 平成 24年 8月 9日  
 ID No. P 12302

氏名 (Name): Kay Thwe HLAING  
 国籍 (Nationality): ミャンマー (MYANMAR)  
 生年月日 (Date of Birth): 1970年 3月 30日 (March 30, 1970)

本会は、外国人特別研究員事業により下記受入研究者が招へいする上記の者に対し、採用期間中、下記の経費を負担する。  
 なお、上記の者は採用期間中、日本に滞在し、受入研究者の指導のもとに、共同研究を行う。

This is to certify that the Japan Society for the Promotion of Science (JSPS) provides the above named person (Fellow) with the following allowances under the "JSPS Postdoctoral Fellowship for Foreign Researchers" during the period of the fellowship, which is granted based upon an invitation by the Japanese host researcher. The Fellow will conduct collaborative research in Japan under the leadership of the host researcher. The terms of the fellowship are as follows:

記

受入研究者: 三豊大学 教授 寿山 茂子  
 Host Researcher: Prof. Shigeko HARUYAMA  
 Mie University

採用期間: 平成24年9月1日から平成24年11月30日までの間に来日し、24ヶ月間  
 Fellowship Term: 24 consecutive months from the arrival date in Japan, which must be within the period of September 1, 2012 through November 30, 2012.

支給経費: 1) 往復旅費 本会の規程による  
 Financial Support: Round-trip air ticket issued according to JSPS regulations  
 2) 渡日一時金 200,000円  
 Settling-in allowance according to JSPS regulations: ¥200,000  
 3) 滞在費 月額 362,000円  
 Maintenance allowance: ¥362,000 per month  
 4) 海外旅行傷害保険  
 Accident and sickness insurance

ただし、本証明書発行日現在において日本国内に居住している場合は、本会は来日に係る旅費及び渡日一時金は支給しない。  
 If the Fellow resides in Japan on the date this certificate was issued, the above-mentioned air ticket to Japan and settling-in allowance will not be provided.

独立行政法人 日本学術振興会  
 理事長 安西 祐一  
 President  
 Japan Society for the Promotion of Science

**日本国政府** **在留カード** 番号 RC10223268KA  
 GOVERNMENT OF JAPAN RESIDENCE CARD No.

氏名 **KAY THWE HLAING**  
 NAME

生年月日 **1970年03月30日** 性別 **女 F** 国籍・地域 **ミャンマー**  
 DATE OF BIRTH Y M D SEX NATIONALITY/REGION

住居地 **未定 (届出後裏面に記載)**  
 ADDRESS

在留資格 **教授**  
 STATUS Professor

就労制限の有無 **在留資格に基づく就労活動のみ可**

在留期間 (満了日) **3年 (2015年10月31日)**  
 PERIOD OF STAY (DATE OF EXPIRATION) Y M D

許可の種類 **上陸許可 (入国審査官)** **MOJ**

許可年月日 **2012年10月31日** 交付年月日 **2012年10月31日**

このカードは **2015年10月31日まで有効** です。 法務大臣 印  
 PERIOD OF VALIDITY OF THIS CARD

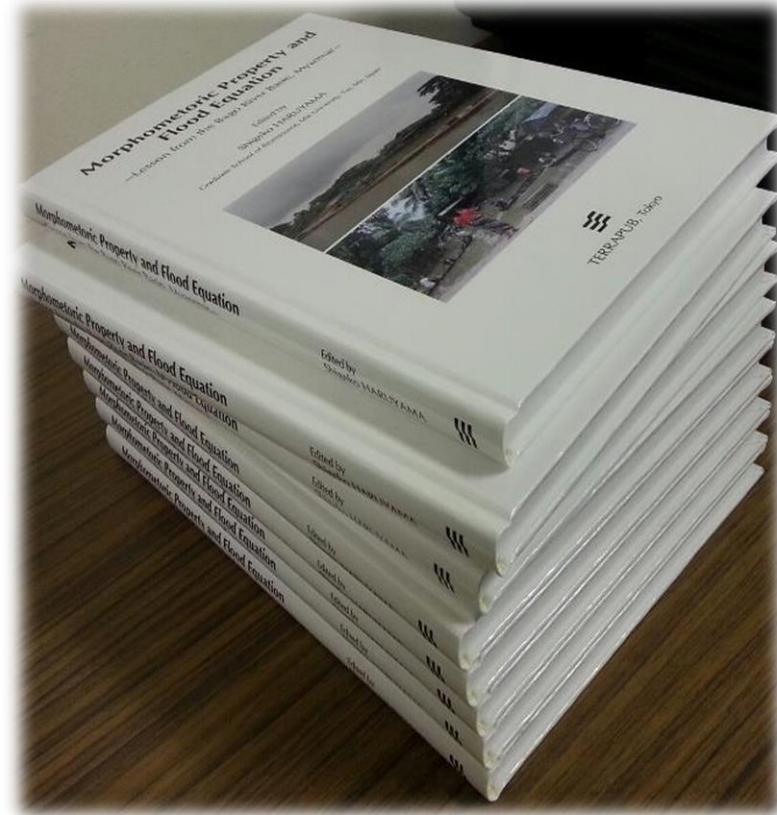


## **Experiences in Japan as a PD Fellow**

- 1. Teaching Experience in Japan**
- 2. Research Experience in the Field Survey**
- 3. Research Experience in the Lab**
- 4. Presentation Experience in the Conferences**
- 5. Writing Experience for publication**

# 1. Teaching Experience

- ❖ **Geography of Myanmar** for 2nd and 3rd Year Students
- ❖ **Land Cover Changes** of the Bago River Basin for 4th Year Students
- ❖ **Remote Sensing and GIS technology** for 4th year and Master students
- ❖ **How to make scientific presentation** for 4th year and Master students
- ❖ **How to write scientific report and international published papers** for 4th year and Master students
- ❖ **How to make presentation in Workshop, Symposium and International Conference** for 4th year and Master students



## 2. Research Experience in the Field Survey



## 2. Research Experience in the Field Survey



## 2. Research Experience in the Field Survey





### 3. Research Experience in the Lab

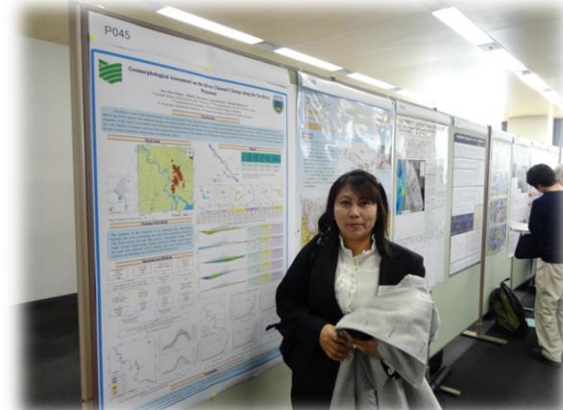
1. Sediment Analysis using Laser Analyzer
2. Water Quality Analysis using Chemical Analyzer
3. Application of Satellite Images using RS and GIS for Hazard Maps

#### Experiment in University of Tokyo



## 4. Presentation Experience in the Conferences

- ❖ International Geographical Union Conference in Kyoto-2013
- ❖ Japan Geographical Association Meeting ( 2013 and 2014)
- ❖ Symposium in Asahikawa (25th to 28th January, 2013 and 24th to 25th January, 2014)



## 5. Writing Experience for publication

**Title of PD Research:** Environmental Changes of Ayeyarwady River in Myanmar

**Publications:** 2 Text Books and 28 Papers and Conference Papers

### **International Text Book Publication**

1. Haruyama and **Kay Thwe Hlaing** (2013) Morphometric Property and Flood Equation- Lesson from the Bago River Basin, Myanmar, TERRAPUB, Tokyo, **ISBN 978-4-88704-159-2**
2. Haruyama and **Kay Thwe Hlaing** (2014) Environmental change and landform process of the lower plain of the Ayeyarwady River, Myanmar, Japan Society for the Promotion of Science, Tokyo, **ISBN 978-4-88704-159-2**

## List of International Papers

1. Shigeiko Haruyama, **Kay Thwe Hlaing** (2012) Soil Erosion under Land Cover Change of the **Bago River Basin** using E30 Model, Towards Sustainable Land Use in Asia (II), Institute of Geography, Hokkaido University of Education, Asahikawa, Japan, 151-161pp.
2. **Kay Thwe Hlaing**, Shigeiko Haruyama, Maung Maung Aye (2013) The Effects of **Tropical Cyclone Nargis** in Myanmar, Proceeding of Global Land Use and Land Cover Conference, International Geographical Union Commission on Land Use / Cover Changes in Selected Regions in the World, Volume V, Japan Asahikawa, Japan.
3. **Kay Thwe Hlaing**, Aye Aye Mauk, Shigeiko Haruyama (2013) Land Use Changes of Hlaingtharyar Township in Yangon City, Myanmar, International Geographical Union Commission on Land Use / Cover Changes in Selected Regions in the World, Volume V, Japan
4. **Kay Thwe Hlaing**, Mayumi Matsumoto, Maung Maung Aye and Shigeiko Haruyama (2013) GIS Analysis for Tropical Cyclones and Coastal Plain in Myanmar, Coastal Geomorphology and Vulnerability of Disaster Towards Disaster Risk Reduction, TERRAPUB, Tokyo, 139-154pp
5. **Kay Thwe Hlaing**, Shigeiko, Haruyama, Maung Maung Aye (2013) **Water Quality** in the Middle Part of the Ayeyarwady Delta: An Introduction using GIS-based Mapping and Analysis, Proceeding of the General Meeting of the Association of Japanese Geographers, **ISSN: 1345-8329.**

## List of International Papers

6. **Kay Thwe Hlaing**, Shigeko Haruyama, Sein Sein Min, Maung Maung Aye (2013) Geomorphological Assessment on the **River Channel Change** along the Toe River, Myanmar, Proceeding of the General Meeting of the Association of Japanese Geographers, **ISSN: 1345-8329**.
7. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2013) **Natural Hazards Assessment on the Tropical Cyclones Nargis** in Myanmar, Proceeding of the Japanese Geoscience Union, Tokyo, GLP session in JpGU international symposium 2013, Makuhari, Chiba.
8. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2013) Hydrological Assessment on the Bago River Basin using Remote Sensing and Geographic Information Systems, Proceeding of International Geographic Union 2013, Kyoto Regional Conference.
9. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2013) The Natural Hazards of Myanmar: the Case of Tropical Cyclone Nargis, Proceeding of International Geographic Union 2013, Kyoto Regional Conference.
10. Nay Win Oo, **Kay Thwe Hlaing**, Shigeko Haruyama, Matsumoto Mayumi (2013) **Fluvial Landform Development of the Ayeyarwady River Bank** near Hinthada Area, Proceeding of International Geographic Union 2013, Kyoto Regional Conference.

## List of International Papers

11. Shigeko Haruyama, Mayumi Matsumoto and **Kay Thwe Hlaing** (2013 Aug.6) Landform series of the lowest part of Nile delta and interpretation of all core boring, IGU-KRC2013, Kyoto, Japan
12. Makiko Senda, **Kay Thwe Hlaing**, Kunihide Miyaoka, Shigeko Haruyama and Yasuhisa Kuzuha (2014) **Water environments in the southern delta of Myanmar during the rainy season**, Journal of Japan Society of Civil Engineers.
13. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2014) Environmental Restoration of the Lower Ayeyarwady River: A Case Study of Nyaungdon Borecore Area, Towards Sustainable Land Use in Asia, Volume V.
14. **Kay Thwe Hlaing**, Saw Yu May, Shigeko Haruyama (2014) **Recent Land Cover Changes of the Inle Watershed** affected by Anthropogenic Activities, Towards Sustainable Land Use in Asia, Volume V.
15. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2014) Preliminary Study on the Environmental Changes of the Ayeyarwady River Delta: Nyaungdon Borecore Area, Proceeding of the General Meeting of the Association of Japanese Geographers, **ISSN: 1345-8329**.
16. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2014) Geospatial Analysis for Characterization of the Ground Water Quality of the Hlaingtharyar Township, Myanmar, Proceeding of the General Meeting of the Association of Japanese Geographers, **ISSN: 1345-8329**.

## List of International Papers

17. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2014) Fluvial **Environmental Changes of the Ayeyarwady Delta**: Case Study for Nyaungdon Borecore Area, Proceeding of Japanese Geoscience Union Conference in Yokohama, Japan.
18. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2014) Geospatial Analysis for Characterization of the Ground Water Quality of the Hlaingtharyar Township, Myanmar, Proceeding of the General Meeting of the Association of Japanese Geographers, **ISSN: 1345-8329**.
19. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2014) Fluvial Environmental Changes of the Ayeyarwady Delta: Case Study for Nyaungdon Borecore Area, Proceeding of Japanese Geoscience Union Conference in Yokohama, Japan.
20. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2014) Fluvial Environmental Changes of the Ayeyarwady Delta near Hinthada Borecore Area, Proceeding of the General Meeting of the Association of Japanese Geographers, **ISSN: 1345-8329**.
21. **Kay Thwe Hlaing**, Shigeko, Haruyama, Maung Maung Aye (2013) Water Quality in the Middle Part of the Ayeyarwady Delta: An Introduction using GIS-based Mapping and Analysis, Proceeding of the General Meeting of the Association of Japanese Geographers, **ISSN: 1345-8329**.

## List of International Papers

22. Maung Maung Aye, **Kay Thwe Hlaing**, Shigeko Haruyama (2014) A Geomorphologic and hydrologic analysis on the Ayeyarwady Drainage Basin of Myanmar, *Environmental change and landform process of the lower plain of the Ayeyarwady River, Myanmar*, JSPS, Tokyo, **ISBN 978-4-88704-159-2**
23. **Kay Thwe Hlaing**, Shigeko, Haruyama (2014) The Fluvial Environmental Changes of the Ayeyarwady River Delta utilizing the drilling sediment facies, *Environmental change and landform process of the lower plain of the Ayeyarwady River, Myanmar*, JSPS, Tokyo, **ISBN 978-4-88704-159-2**
24. **Kay Thwe Hlaing** and Shigeko Haruyama (2014) Geomorphology and Holocene landform processes at Pathein, Myanmar, *Environmental change and landform process of the lower plain of the Ayeyarwady River, Myanmar*, JSPS, Tokyo, **ISBN 978-4-88704-159-2**
25. **Kay Thwe Hlaing** and Shigeko Haruyama (2014) Geomorphology and Holocene landform processes at Pathein, Myanmar, *Environmental change and landform process of the lower plain of the Ayeyarwady River, Myanmar*, JSPS, Tokyo, **ISBN 978-4-88704-159-2**



## List of International Papers

26. **Kay Thwe Hlaing**, Kunihide Miyaoka, Shigeko Haruyama and Yasuhisa Kuzuha (2014) Spatial Distribution of the Groundwater and Surface Water in the Ayeyarwady Delta, An Assessment based on Geostatistical Approaches, *Environmental change and landform process of the lower plain of the Ayeyarwady River, Myanmar*, JSPS, Tokyo, **ISBN 978-4-88704-159-2**
27. **Kay Thwe Hlaing**, **Aye Aye Mauk**, Shigeko Haruyama (2014) Development of Land Utilizations and Water Quality for Hlaingtharyar Township in Yangon City, Myanmar, *Environmental change and landform process of the lower plain of the Ayeyarwady River, Myanmar*, JSPS, Tokyo, **ISBN 978-4-88704-159-2**
28. Shigeko Haruyama, **Kay Thwe Hlaing**, Muhammad Hamdan and So Hasegawa (2014) **Holocene Sediment at Iduk III near Kom al-Diba'a archaeological site, Egypt**, Proceeding of the General Meeting of the Association of Japanese Geographers, Toyama University **ISSN: 1345-8329.**

# Benefits

## (A) For Government

- ❖ We can give some suggestions about current Japanese education system, Learnt the systematic development technology, Used modern laboratory equipments, learning and exchange technologies experiences.
- ❖ We can apply not only advance technologies but also share some knowledge for government planning.

## (B) For Subject

- ❖ Geography, Hydrology, Engineering, Environmental Management and conservation combined with GIS and RS
- ❖ Determined the amount of **water, sediment, carbon** nitrate nitrogen, nitrous acid ammonia **and dissolved materials** being carried by the **Ayeyarwady and the tributaries.**
- ❖ Examined the **floodplain sediments** and sedimentary record in areas near the main course of the Ayeyardwady River to obtain **environmental change in Holocene.**

- ❖ Obtained the long records of **climate change in lower Myanmar** in **Holocene** using the **all core borings** (sediment cores) obtained from the Ayeyarwady delta.
- ❖ Developed a **collaborative relationship** between the academic staff of the institutions involved in this study that can lead to further collaborative research upon completion of this project. In particular, to build up a **long-term river monitoring** in order to develop fluvial process understanding of the rivers and the catchment.
- ❖ Drew Geomorphological Map related with natural hazards.

### **(C) For Teaching**

- ❖ Research and teaching for undergraduate, graduate and post graduate students
- ❖ Collaborate research with international experiences

**Thank you so much for your kind attention!**