

# IEEE Shin-etsu Section

## Annual Report 2008

February 3, 2009

### PART A – SECTION SUMMARY

#### A.1 Executive Summary

- **Section activity:** The IEEE Shin-etsu Section is a new section that was established in 2006. The year 2008 marks the second year of actual section activity during which the foundations for future section activity were built. The election for the new section officers was held in October 2008 and then ratified at the executive committee meeting on November 8th. The new officers are listed in section A.3.
- **Membership:** Shin-etsu Section: Fellows: 4, Senior members: 14, Members: 167, Associate members: 13, Student members: 25, Total: 223.
- **Section territory:** IEEE Shin-etsu Section, one of the nine sections of the IEEE Japan Council, encompasses the Shin-etsu Area (Nagano and Niigata Prefectures) of Japan.

#### A.2 Financial Report

- The balance at the end of 2007 was 1,275,340 yen. Income for 2008 totalled 1,053,854 yen. Expenses in 2008 were 756,694 yen resulting in a balance at the end of 2008 of 1,572,500 yen.

#### A.3 Section Officers and Committee Officers (2009-2010)

Chair:

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Treasurer:

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### **Standing Committee Chairs:**

The policy for selecting the Standing Committee Chairs and other section committee officers was decided at the December 25th executive committee meeting, but the actual selection process has yet to be completed. Also, planning for 2009-2010 section activities was discussed.

## **PART B – ORGANIZATIONAL ACTIVITIES**

### **B.1 Membership Development Programs**

#### ● Recruitment:

-Begun in November, evaluations are ongoing.

#### ● Evidence of Member retention

-Under evaluation.

### **B.2 Professional and Continuing Education Activities**

During 2007-2008, the policy of the Shin-etsu section was to make as many people as possible aware of IEEE activities and to support activities by co-organizing and co-sponsoring events when requested. The following events received the support of the Shin-etsu Section.

1. Nov. 17 and 24, 2006 (supported event): "Interesting Science Experiments", A class taught at Himekawahara Elementary School, Myoko City organized by the Niigata Institute of Technology and the "Getting children interested in Science" group.
2. Jan. 17-19, 2007 (supported event): "International Symposium on Fusion Technology 2006-2007", in Niigata organized by Niigata University.
3. Feb. 20, 2007 (co-sponsored event): "Homepage Universal Design Seminar", organized by Shinshu University.
4. Dec. 5, 2007 (co-organized event): "The future of and the problems facing the IT industry", a lecture at Niigata Institute of Technology by Mr. Noriyasu Kurosaka, the president of Densan Inc..
5. Dec. 14, 2007 (co-organized event): "Visible Light Optical Communications", a lecture at Shinshu University by Dr. Takaya Yamazato, an Associate Professor at the Ecotopia Science Research Lab, Nagoya University.
6. Jan. 31, 2008 (co-organized event): "The history of DSP and future directions", a lecture at Nagaoka University of Technology by Mr. Yutaka Nisikiori, Manager of the DSP/MSP430 PBD Partner network & University Program Group, Texas Instruments Japan.
7. Jul. 18, 2008 (co-organized event): "An Engineer who rose from the sea to land - and now!", a lecture by Mr. Takashi Sasaki, president of Kaijo Inc, and organized by the Department of Electrical and Electronic Engineering, Shinshu University (number of attendees: 140)
8. Nov. 7, 2008 (co-organized event): "Generation of electromagnetic waves and charged particles using lasers and plasma", a lecture at Nagaoka University of Technology by Dr. Takeshi Higashiguchi, Utsunomiya

University.

9. Nov. 7, 2008 (co-organized event): "Technical education major and teacher training in the Faculty of Education", "Friction luminescence - removing scotch tape causes X-rays", lectures at Nagaoka University of Technology by Dr. Seizo Furuya, Faculty of Education, Gunma University.

## **Standing Committee Plan**

### **Membership Development (Publicity, Homepage Officer)**

Maintenance, update of the section homepage and creation of an English version.

### **Nominations (Election, Nominations Officer)**

Nomination of Fellows, encourage members who are eligible for Senior Member status to apply. Make applications easier by outlining the procedure.

### **Technical Program (Technical Meetings Officer)**

The student presentations in 2007 were a good start. How to increase the number of presentations is a problem that needs to be addressed. As in 2007, in 2008 a session for student presentations was added at the IEICE Shin-etsu Section technical meeting (Nagaoka National College of Technology) and at the IEEEJ Tokyo Section - Niigata Branch technical meeting (Niigata University) in cooperation with the respective societies. At each meeting, a Young Researcher Paper Award was given to two students each for a total of four awards. The winners were each given a gift certificate for books. Also, students who plan to present papers at an IEEE organized or co-organized (or equivalent) international conference with a paper review system within one year are eligible to receive the amount of the registration and banquet fees. These activities were submitted to the IEEE Japan Council and were approved. Currently, the international conference support activity is being prepared. The award winners for 2007 were as follows.

- Tsubasa Nakamura (Oshima National College of Maritime Technology)  
"Annealing of Metal Wire by Atmospheric Pressure Plasma"
- Ziyang Jia (Shinshu University)  
"Time-Domain Multiple-Symbol Differential Detection for Space-Time Frequency Coded OFDM"
- Wataru Yamanouchi (Nagaoka University of Technology)  
"A Method of Human Support Motion Based on Physical Model"
- Kazutoshi Kurano (Nagaoka University of Technology)  
"New Analysis Method of Peeling Process of 100nm Width ArF Resist Pattern by using AFM"

The award winners at the 1st technical meeting of 2008 on Sept. 27<sup>th</sup> were as follows.

- Hernán Aguirre (Shinshu University)  
"Performance Analysis of (epsilon)-ranking on MNK-Landscapes"
- Kazuyuki Miyakita (Niigata University)

## "Evaluation of Communication Quality and Connectivity in Two-Dimensional Multi-Hop Wireless Networks"

The winners for the 2nd technical meeting are in the process of being selected.

In 2008, there were 13 presentations during the IEEE session at the IEICE Shin-etsu Section technical meeting. All of the presentations were given in English. Also, there were 14 presentations at the IEEE poster session at the IEEJ Tokyo Section - Niigata Branch technical meeting. Even though the discussions were between Japanese researchers, there were discussions in English. This kind of forum where students and young researchers can practice for international conferences sponsored by the IEEE and other technical societies is becoming more commonplace. In the future, organization of an IEEE Shin-etsu Section technical meeting is planned.

### **B.3 Student Activities**

#### **Student Activities (Lecture Planning Officers at each University)**

As was the case in 2007, a forum for student presentations is to be planned together with the technical program. Also, lectures are planned at each University and National College.

#### **Committee Meetings**

- Mar. 26, 2008: 1<sup>st</sup> Section Executive Meeting to plan for the year
- Sep. 19-22, 2008: Sent the Shin-etsu Section Secretary, Takashi Sato, to the 2008 Section Congress in Quebec City, Canada
- Sep. 27, 2008: Technical meeting held in conjunction with the IEICE Shin-etsu Section technical meeting. Also, the 2<sup>nd</sup> Section Executive Meeting was held to discuss the date for the election of the 2009 section officers and to select the Nomination Committee members.
- Nov. 8, 2008: Technical meeting for students held in conjunction with the IEEJ Tokyo Section - Niigata Branch technical meeting. The 3<sup>rd</sup> Section Executive Meeting was held to ratify the new section officer election results.
- Dec. 25, 2008: 4<sup>th</sup> Section Executive Meeting to brief the new section officers

### **B.4 Home Page**

- The Shin-etsu Section webpage provides in-depth information for section members, such as announcements from the Section and conference/workshop news.

Visit: [http://www.ie.niigata-u.ac.jp/ieee\\_shin-etsu/](http://www.ie.niigata-u.ac.jp/ieee_shin-etsu/)

- Street and e-mail addresses for the Shin-etsu Section Office:

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