



# Tainan Section

Annual Report 2011

Prepared by Ce-Kuen Shieh

Ce-Kuen Shieh  
Chair, IEEE Tainan Section  
Tainan, Taiwan  
2012/2/8

# **PART A - SECTION SUMMARY**

## **A.1 Executive Summary**

### A.1.1 2011 Section Executive Committee Member List

Chair: Prof. Jar-Ferr Yang/ National Cheng Kung University  
Email: [jfyang@ee.ncku.edu.tw](mailto:jfyang@ee.ncku.edu.tw)

Vice Chair (Deputy): Prof. Ce-Kuen Shieh/ National Cheng Kung University  
Email: [shieh@ee.ncku.edu.tw](mailto:shieh@ee.ncku.edu.tw)

Vice Chair (Technical Activities): Prof. Mi-Ching Tsai/ National Cheng Kung University  
Email: [mctsai@mail.ncku.edu.tw](mailto:mctsai@mail.ncku.edu.tw)

Vice Chair (Conferences): Prof. Chung-Hsien Wu/ National Cheng Kung University  
Email: [chwu@csie.ncku.edu.tw](mailto:chwu@csie.ncku.edu.tw)

Secretary: Prof. Yueh-Min Huang/ National Cheng Kung University  
Email: [huang@mail.ncku.edu.tw](mailto:huang@mail.ncku.edu.tw)

Treasurer: Prof. Tsorng-Juu Liang/ National Cheng Kung University  
Email: [tjliang@mail.ncku.edu.tw](mailto:tjliang@mail.ncku.edu.tw)

Membership Development: Prof. Chua-Chin Wang/ National Sun Yat-sen University  
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Membership Development: Prof. Wen-Shyang Chen/ Cheng Shiu University  
Email: [chenwsh@csu.edu.tw](mailto:chenwsh@csu.edu.tw)

Professional Activities: Prof. Sheng-Tzong Cheng/ National Cheng Kung University  
Email: [stevecheng168@gmail.com](mailto:stevecheng168@gmail.com)

Professional Activities: Prof. Kuo-Sheng Cheng/ National Cheng Kung University  
Email: [kscheng@mail.ncku.edu.tw](mailto:kscheng@mail.ncku.edu.tw)

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Student Activities: Prof. Kuen-Jong Lee/ National Cheng Kung University  
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Educational Activities: Prof. Szu-Lin Su/ National Cheng Kung University  
Email: [ssl@ee.ncku.edu.tw](mailto:ssl@ee.ncku.edu.tw)

Educational Activities: Prof. Wen-Nung Lie/ National Chung Cheng University  
Email: [wnlie@ee.ccu.edu.tw](mailto:wnlie@ee.ccu.edu.tw)

Newsletter Editor: Prof. Hua-Ming Chen/ National Kaohsiung University of Applied Science  
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Awards: Prof. Pau-Choo Chung/ National Cheng Kung University  
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Nominations & Appointments: Prof. Chung-Ming Huang/ National Cheng Kung University  
Email: [huangcm@locust.csie.ncku.edu.tw](mailto:huangcm@locust.csie.ncku.edu.tw)

Webmaster: Prof. Vincent Shin-Mu Tseng/ National Cheng Kung University  
Email: [tsengsm@mail.ncku.edu.tw](mailto:tsengsm@mail.ncku.edu.tw)

#### A.1.2 2012 Section Executive Committee Member List

Chair: Prof. Ce-Kuen Shieh/ National Cheng Kung University  
Email: [shieh@ee.ncku.edu.tw](mailto:shieh@ee.ncku.edu.tw)

Vice Chair (Deputy): Prof. Chung-Hsien Wu/ National Cheng Kung University  
Email: [chwu@csie.ncku.edu.tw](mailto:chwu@csie.ncku.edu.tw)

Vice Chair (Technical Activities): Prof. Mi-Ching Tsai/ National Cheng Kung University  
Email: [mctsai@mail.ncku.edu.tw](mailto:mctsai@mail.ncku.edu.tw)

Vice Chair (Conferences): Prof. Chua-Chin Wang/ National Sun Yat-sen University  
Email: [cwang@ee.nsysu.edu.tw](mailto:cwang@ee.nsysu.edu.tw)

Vice Chair (Industry): Prof. Jeng-Shyang Pan/ National Kaohsiung University of Applied Sciences  
Email: [jspan@cc.kuas.edu.tw](mailto:jspan@cc.kuas.edu.tw)

Secretary: Prof. Vincent Shin-Mu Tseng/ National Cheng Kung University  
Email: [tsengsm@mail.ncku.edu.tw](mailto:tsengsm@mail.ncku.edu.tw)

Treasurer: Prof. Tsorng-Juu Liang/ National Cheng Kung University  
Email: [tjliang@mail.ncku.edu.tw](mailto:tjliang@mail.ncku.edu.tw)

Membership Development: Prof. Chung-Ho Chen/ National Cheng Kung University  
Email: [chchen@mail.ncku.edu.tw](mailto:chchen@mail.ncku.edu.tw)

Membership Development: Prof. Tzung-Pei Hong/ National University of Kaohsiung  
Email: [tphong@nuk.edu.tw](mailto:tphong@nuk.edu.tw)

Membership Development: Prof. Ren-Hung Hwang/ National Chung Cheng University  
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Professional Activities: Prof. Chung-Ming Huang/ National Cheng Kung University  
Email: [huangcm@locust.csie.ncku.edu.tw](mailto:huangcm@locust.csie.ncku.edu.tw)

Professional Activities: Prof. Kuo-Sheng Cheng/ National Cheng Kung University  
Email: [kscheng@mail.ncku.edu.tw](mailto:kscheng@mail.ncku.edu.tw)

Student Activities: Prof. Szu-Lin Su/ National Cheng Kung University  
Email: [ssl@ee.ncku.edu.tw](mailto:ssl@ee.ncku.edu.tw)

Educational Activities: Prof. Yueh-Min Huang/ National Cheng Kung University  
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Educational Activities: Prof. Sheng-Tzong Cheng/ National Cheng Kung University  
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Newsletter Editor: Prof. Hui-Tang Lin/ National Cheng Kung University  
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Awards & Recognition Committee Co-Chair: Prof. Jar-Ferr Yang/ National Cheng Kung University  
Email: [jfyang@ee.ncku.edu.tw](mailto:jfyang@ee.ncku.edu.tw)

Awards & Recognition Committee Co-Chair: Prof. Kuen-Jong Lee/ National Cheng Kung University  
Email: [kjlee@ee.ncku.edu.tw](mailto:kjlee@ee.ncku.edu.tw)

Nominations & Appointments: Prof. Pau-Choo Chung/ National Cheng Kung University  
Email: [pcchung@eembox.ncku.edu.tw](mailto:pcchung@eembox.ncku.edu.tw)

### A.1.2 Section Highlights

In the year of 2011, Tainan Section has held 2 officer meetings, 1 annual member meeting, and 3 technical meetings. In 2011, our CASS Tainan Chapter held the “First IEEE CASS Summer School in Region 10, on Advanced Circuit Design” which attracted the attention of many student members. To make the activity go smoothly, Tainan Section also helped to promote it and to deal with financial parts. During the year, we have made efforts on modifying the regulations of “Award Applications” which is designed to recognize outstanding performances of young members and experienced professionals. There are 5 different awards for section members and we hope to have an award with regards to industry in the future. In 2011 annual meeting, all award recipients were awarded a certificate in front of section members. For student membership, we continued the reimbursement for students who join IEEE at their first time. And another reimbursement for students joining IEEE conferences abroad was still providing. There were 6 student members qualified for the reimbursement in 2011.

### A.1.3 Major Events

In April, Tainan Section held a “Workshop for Intelligent Life Technology” which contains display room with interaction design to people and several lectures about intelligent life technologies. The workshop invited the Mayor of Tainan city and his office staff to join our program. We also had many professionals and undergraduate/graduate students join us. The workshop is not only educational but also innovative, and provides creative thoughts for attendees.

Tainan Section co-sponsored the International Conference on Visual Communications and Image Processing (VCIP), November 6-9, 2011, in Tainan, Taiwan. The conference had more than 200 submitted papers and 143 accepted. This meant to us because it was the first time VCIP sponsored by IEEE. We were much honored to assist holding it.

### A.1.4 Major Chapter Activities

SSCS Tainan Chapter and CASS Tainan Chapter helped hold the “International Conference on IC Design and Technology (ICICDT)” in Kaohsiung, Taiwan from 2 to 4 May, 2011. Both chapter chairs also worked hard to promote student membership during the conference.

The CASS Tainan Chapter held the “First IEEE CASS Summer School in Region 10, on Advanced Circuit Design”, Aug 29 – Sep 2, 2011, in Kaohsiung, Taiwan. With the limitation of budget, CASS Tainan Chapter finally accepted only 50 fewer than actual student members who intended to join the event. There were 8 technical tutorials for our students. Though this event was interrupted by typhoon shortly, all students were having great time and learned a lot.

### A.1.5 Awards

This year was the second year for the award applications with 5 different ones in the Tainan Section. We received many applications from our members and many of them are very outstanding. It was really hard for committee members to review and choose the limited number of award recipients. Finally, the name lists of award recipients came out as follows:

- 2011 Distinguished Service Award
  1. Prof. Hua-Ming Chen, “*in recognition of his long-term and distinguished contributions to IEEE Antennas and Propagation Society Tainan Chapter activities.*”
  2. Prof. Wen-Shan Chen, “*in recognition of his long-term and distinguished contributions to IEEE Antennas and Propagation Society Tainan Chapter activities.*”
  3. Prof. Shun-Yun Lin, “*in recognition of her long-term and distinguished contributions to IEEE Antennas and Propagation Society Tainan Chapter activities.*”
- Best GOLD Member Award
  1. Prof. Tsung-Yi Ho, “*For Contributions to Electronic Design Automation in Digital Micorfluidic Biochips.*”
  2. Prof. Chuan-Kang Ting, “*For Contributions to Excellent Services and Leaderships in Computational Intelligence Evolutionary Computation Areas.*”

- Best Ph.D. Thesis Award
  1. Dr. Shih-Ming Chen, “*For Contributions to Power Electronics and Their Related Developments and Technologies in Doctoral Thesis.*”
- Best Master Thesis Award
  1. Dr. Tsung-Wei Huang, “*For Contributions to Electronic Design Automation in Digital Microfluidic Biochips in Master Thesis.*”
  2. Dr. Wai-Leong Chen, “*For Contributions to Advanced Materials in Biomedical Sensing Applications in Master Thesis*”
- Outstanding Technical Achievement Award
  1. Prof. Sun-Yuan Hsieh, “*For Contributions in Establishing Software Learning E-tutor Service Platform to Greatly Enhance Students' Programming Design Capabilities*”
  2. Prof. Tsorng-Juu Liang, “*For Contributions in Fruitful Research, Technical Society Services, and Industrial Assistancess in Power Electronics*”
- Best Service Award
  1. Dr. Jhing-Fa Wang, “*For Excellent Contributions in Establishing IEEE Tainan Section with Respectably Enthusiastic Services and Fund Raising*”

## A.2 Financial Report

The Tainan Section supported all programs including chapter activities in 2011. To encourage student activities, we also provide students limited amounts for travel grants and membership. The receipt of the Section is TWD 1,065,817 and the expense is TWD 1,108,651 including cash paid on payables. Thus the final balance is TWD 2,536,493 at the end of year 2011.

# PART B - ORGANIZATIONAL ACTIVITIES

## B.1 Membership Development Activities

### B.1.1 Total number of active members in the past 3 years:

Grade	2009	% Change	2010	% Change	2011
Fellow	12	↑ 33.3%	16	-	16
Life	2	-	2	↑ 50%	3
Senior Member	77	-	77	↑ 11.7%	86
Member	505	↑ 5.1%	531	↓ 1.5%	523
Associate Member	33	↓ 9.1%	30	↑ 13.3%	34
Graduate/Student	241	↓ 0.4%	240	↓ 17.5%	198
Affiliate	29	↑ 10.3%	32	-	32
TOTAL	899	↑ 3.2%	928	↓ 3.9%	892

### B.1.2 Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

To increase the value of membership and recruit new members, the Tainan Section has provided several services. First, we have clearly defined the progress of joining IEEE for students and provided newly joined student members reimbursements for their membership dues. Second, the award applications constituted by the Tainan Section, were designed to encourage member participation and recognize members' hard work in IEEE-designated fields. In 2011, we also encouraged our members to apply for becoming senior members, thus the numbers of senior member increased.

## B.2 Chapter Activities

### B.2.1 Total number of Chapters in the Section

Currently there are 15 Chapters and 2 Joint Chapters in the Tainan Section. The details of 2011 chapters are in the following:

1. Chapter Name: Antennas and Propagation Society Tainan Chapter  
Chapter Chair: Prof. Wen-Shan Chen
2. Chapter Name: Broadcast Technology Society Tainan Chapter  
Chapter Chair: Prof. Chih-Peng Li
3. Chapter Name: Circuits and Systems Society Tainan Chapter  
Chapter Chair: Prof. Chung-Ho Chen
4. Chapter Name: Communication Society Tainan Chapter  
Chapter Chair: Prof. Hsiao-Hwa Chen
5. Chapter Name: Computational Intelligence Society Tainan Chapter  
Chapter Chair: Prof. Tzung-Pei Hong
6. Chapter Name: Computer Society Tainan Chapter  
Chapter Chair: Prof. Chu-Sing Yang
7. Chapter Name: Electron Devices Society Tainan Chapter  
Chapter Chair: Prof. Wen-Kuan Yeh
8. Chapter Name: Engineering in Medicine and Biology Society Tainan Chapter  
Chapter Chair: Prof. Kuo-Sheng Cheng
9. Chapter Name: Information Theory Society Tainan Chapter  
Chapter Chair: Prof. Trieu-Kien Truong
10. Chapter Name: Magnetics Society Taipei & Tainan Joint Chapter  
Chapter Chair: Prof. Jen-Hwa Hsu
11. Chapter Name: Microwave Theory and Techniques Society Tainan Chapter  
Chapter Chair: Prof. Sheng-Fuh Chang
12. Chapter Name: Nanotechnology Council Tainan Chapter  
Chapter Chair: Prof. Yu-Cheng Lin
13. Chapter Name: Reliability Society Taipei & Tainan Joint Chapter  
Chapter Chair: Prof. Shiuh-Pyng Shieh
14. Chapter Name: Signal Processing Society Tainan Chapter  
Chapter Chair: Prof. Jeng-Shyang Pan
15. Chapter Name: Solid State Circuits Society Tainan Chapter  
Chapter Chair: Prof. Soon-Jyh Chang
16. Chapter Name: Systems, Man & Cybernetics Society Tainan Chapter  
Chapter Chair: Prof. Tzoo-Hseng Li
17. Chapter Name: Vehicular Technology Society Tainan Chapter  
Chapter Chair: Prof. Yueh-Min Huang

### B.2.2 Chapter Activities

1. Antennas and Propagation Society Tainan Chapter - 18 meetings

- Date: Feb. 19, 2011  
Title: Trends and opportunities of EM field at Taiwan  
Speaker Name: Prof. Sheng-Fuh Chang  
Affiliation: National Chung-Cheng University
- Date: Mar. 28, 2011  
Title: Far-field anechoic chamber analysis by FDTD method  
Speaker Name: Prof. Hong-Twu Chen  
Affiliation: ROC Military Academy
- Date: Apr.11, 2011  
Title: Integrated RF design  
Speaker Name: Dr. Kuo-Ying Su  
Affiliation: AVerMedia Technologies Inc.
- Date: Apr. 13, 2011  
Title: Introduction to Antenna Industry & Wireless Communication System  
Speaker Name: Dr. Liang-Che Chou  
Affiliation: Yageo Corp. Nantze branch
- Date: Apr. 27, 2011  
Title: External and Internal Antenna for Practical Application  
Speaker Name: Dr. Liang-Che Chou  
Affiliation: Yageo Corp. Nantze branch
- Date: May 4, 2011  
Title: Antenna Measurement and Certification  
Speaker Name: Dr. Liang-Che Chou  
Affiliation: Yageo Corp. Nantze branch
- Date: May 14, 2011  
Title: MIMO antenna design and practice  
Speaker Name: Dr.Cheng-Tse Lee  
Affiliation: Lite-on Tech. corp.
- Date: May 18, 2011  
Title: Passive Devices and LTCC application  
Speaker Name: Dr. Liang-Che Chou  
Affiliation: Yageo Corp. Nantze branch
- Date: May 21, 2011  
Title: Recent Progress on the Design of the Magneto-Electric Dipole Antenna  
Speaker Name: Prof. K. M. Luk  
Affiliation: City University of Hong Kong
- Date: May 21, 2011  
Title: Recent Development of the Dielectric Resonator Antenna  
Speaker Name: Prof. K. W. Leung  
Affiliation: City University of Hong Kong
- Date: May 25, 2011  
Title: Patent Issue for Practical Application  
Speaker Name: Dr. Liang-Che Chou  
Affiliation: Yageo Corp. Nantze branch
- Date: Jun. 1, 2011  
Title: The Professional Skill and Attitude for EE Fresh Men  
Speaker Name: Dr. Liang-Che Chou  
Affiliation: Yageo Corp. Nantze branch
- Date: Jun. 25, 2011  
Title: New Generation Communications and Green Antennas Tech.  
Speaker Name: Dr. Wei-Yu Li  
Affiliation: ITRI
- Date: Aug. 12, 2011  
Title: The trend and development of commercial antennas/4G  
Speaker Name: Dr. Jeffrey Gau (President & CCO) and Dr. Y. L. Huang (Vice President/ Antenna Business Unit)  
Affiliation: WNC Wistron Neweb Corp.
- Date: Aug. 12, 2011  
Title: Design consideration of mobile phone antennas  
Speaker Name: Dr. Neil Peng director  
Affiliation: Antenna system Dept., MobileCom Business Unit , WNC Wistron Neweb Corp.

- Date: Aug. 25, 2011  
Title: Microwave Antenna Measurement  
Speaker Name: Mr. Ike Lin  
Affiliation: WavePro Corp.
- Date: Sep. 17, 2011  
Title: Opportunities and challenge of EM Design and Simulation from smart phone industry and trend of miniaturization  
Speaker Name: Dr. Chang, Vice President, and Simon Leou, Director  
Affiliation: Miniaturized Product BU, USI
- Date: Oct. 11, 2011  
Title: Effect of platform noise on wireless communication systems  
Speaker Name: Mr. He  
Affiliation: MSI

## 2. Broadcast Technology Society Tainan Chapter – 3 meetings

- Date: Mar. 7, 2011  
Title: Joint workshop on digital TV and broadcasting  
Attendance: IEEE Members 20, Guests 60
- Date: Jul. 4 - Sep. 9, 2011  
Title: 2011 Summer School on Communications Theory and Technologies  
Attendance: IEEE Members 5, Guests 20
- Date: Aug. 18 - 19, 2011  
Title: 2011 Taiwan-Hong Kong Joint Workshop on Information Theory & Communications  
Attendance: IEEE Members 80, Guests 280

## 3. Circuits and Systems Society Tainan Chapter – 5 meetings

- Date: Mar. 4, 2011  
Title: Putting phase change memory into practice for memory hierarchy  
Speaker Name: Prof. Hsien-Hsin S. Lee  
Affiliation: Georgia Institute of Technology  
Attendance: IEEE Members 20, Guests 30
- Date: Aug. 03, 2011  
Title: Status Report for CASS Tainan Chapter  
Speaker Name: Prof. Chung-Ho Chen  
Affiliation: National Cheng Kung University  
Attendance: IEEE Members 40, Guests 20
- Date: Aug. 11, 2011  
Title: 3D IC Design and Testing  
Speaker Name: Prof. Krishnendu Chakrabarty  
Affiliation: Duke University  
Attendance: IEEE Members 20, Guests 40
- Date: Oct. 27, 2011  
Title: Algorithm-Architecture Co-Design for DSP Application  
Speaker Name: Dr. Pramod Kumar Meher  
Affiliation: Institute for Infocomm Research, Singapore  
Attendance: IEEE Members 20, Guests 120
- Date: Aug., 2011  
Title: 2011 VLSI Design/CAD symposium  
Attendance: 1060

## 4. Communication Society Tainan Chapter – 4 meetings

- Date: Mar. 17, 2011  
Title: Power Line Communications  
Speaker Name: Prof. A.J. Han Vinck  
Affiliation: University of Essen, Germany  
Attendance: IEEE Members 20, Guests 120
- Date: Oct. 24, 2011  
Title: Scalable and Reconfigurable MIMO Systems for Wireless Communication  
Speaker Name: Prof. Ross Murch  
Affiliation: Hong Kong University of Science and Technology  
Attendance: IEEE Members 10, Guests 120



- Date: Nov. 23, 2011  
Title: Multiple Input & Multiple Output Technology and its Application to Ubiquitous Networks  
Speaker Name: Prof. Noriyoshi Kuroyanagi  
Affiliation: NKT Lab, Japan  
Attendance: IEEE Members 10, Guests 40
- Date: Nov. 23, 2011  
Title: On ZCZ-CDMA Systems for Mobile Communication Systems  
Speaker Name: Prof. Shinya Matsufuji  
Affiliation: Yamaguchi University, Japan  
Attendance: IEEE Members 10, Guests 40

5. Computational Intelligence Society Tainan Chapter – 1 meeting

- Date: May 2 - 3, 2011  
Title: DLP Lecture  
Speaker Name: Dr. David B. Fogel  
Attendance: IEEE Members 50 (including student members)

6. Electron Devices Society Tainan Chapter – 2 meetings

- Date: Apr. 28, 2011  
Title: Fast switching Power Semiconductor Devices and SmartPower Ic's - An Enabling Technology for Future High Efficient  
Speaker Name: Dr. Leo Lorenz  
Attendance: IEEE Members 10, Guests 30
- Date: Oct. 14, 2011  
Title: IEEE Mini-Colloquia 2011 ---The New Concept for Advanced Electronic Device  
Attendance: IEEE Members 20, Guests 100

7. IEEE Signal Processing Society Tainan Chapter – 4 meetings

- Date: Mar. 14, 2011  
Title: Fuzzy Set Theory and Fuzzy Reasoning  
Speaker Name: Prof. Shyi-Ming Chen IEEE Fellow
- Date: Apr. 11, 2011  
Title: Android application and CAN Bus research  
Speaker Name: Prof. Cheng-Min Lin
- Date: Apr. 25, 2011  
Title: Reversible data hiding by coefficient adjustment algorithm  
Speaker Name: Prof. Ching-Yu Yang
- Date: May 30, 2011  
Title: Intelligence 3.0  
Speaker Name: Prof. Yau-Hwang Kuo

8. IEEE Solid-State Circuits Society Tainan Chapter – 4 meetings

- Date: Mar. 4, 2011  
Title: Putting phase change memory into practice for memory hierarchy  
Speaker Name: Prof. Hsien-Hsin S. Lee  
Affiliation: Georgia Institute of Technology  
Attendance: IEEE Members 10, Guests 20
- Date: Jun. 3, 2011  
Title: Latest development on CMOS single-photon avalanche diodes and their applications on bio-maging  
Speaker Name: Dr. David Li  
Affiliation: University of Sussex, UK  
Attendance: IEEE Members 10, Guests 30
- Date: Jun. 8, 2011  
Title: Research topics at Center of Technology Infusion, Australia: Intelligent transportation system and smart power technology  
Speaker Name: Prof. Jack Singh  
Affiliation: Victoria University, Australia  
Attendance: IEEE Members 10, Guests 20
- Date: Aug. 11, 2011

Title: 3D IC Design and Testing  
Speaker Name: Prof. Krishnendu Chakrabarty  
Affiliation: Duke University  
Attendance: IEEE Members 10, Guests 40

9. IEEE Microwave Theory and Techniques Society Tainan Chapter – 4 meetings

- Date: Feb. 19, 2011  
Title: Report on Current Status of APMC2012  
Speaker Name: Prof. Kin-Lu Wong  
Affiliation: National Sun Yat-Sen University  
Attendance: IEEE Members 38, Guests 19
- Date: Aug. 5, 2011  
Title: Microwave Doppler Radar Sensor for Remote Noncontact Detection of Human Vital Signs and Mechanical Vibrations and Technical Activities in IEEE Microwave Theory and Techniques Society  
Speaker Name: Prof. Jenshan Lin  
Affiliation: University of Florida  
Attendance: IEEE Members 20, Guests 50
- Date: Dec. 2, 2011  
Title: Digital Centric Wireless Transmitters  
Speaker Name: Prof. Prof. Renato Negra  
Affiliation: RWTH Aachen University  
Attendance: IEEE Members 5, Guests 45
- Date: Dec. 2, 2011  
Title: Microwave Near-field Imaging of Human Tissue: Hopes, Challenges, Outlook  
Speaker Name: Prof. Natalia K. Nikolova  
Affiliation: McMaster University, Canada  
Attendance: IEEE Members 20, Guests 100

### **B.3 Professional and Continuing Education Activities**

The Tainan Section has held educational activities as follows:

- Date: Jun. 2, 2011  
Title: Advanced Coding Tools for HEVC  
Speaker Name: Prof. King Ngi Ngan  
Attendance: IEEE Members 23, Guests 7
- Date: Jun. 9, 2011  
Title: Visual Quality Evaluations for Images and Videos  
Speaker Name: Prof. King Ngi Ngan  
Attendance: IEEE Members 21, Guests 3
- Date: Aug. 10, 2011  
Title: The IEEE Computer Society Vision and Initiatives  
Speaker Name: DR. SOREL REISMAN  
Attendance: IEEE Members 17, Guests 24

### **B.4 Students Activities**

#### **B.4.1 Total number of Student branches in the Section**

Currently, there are two student branches, NCKU and NSYSU branches, in the Tainan Section. The first one (NCKU student branch) was established in 2005 and the other one (NSYSU student branch) was established in 2006. These two student branches were both active and held technical meetings and invited talks in 2011 for their branch members.

#### **B.4.2 Section level student activities (student congress, paper and other contests, awards etc)**

The Tainan Section has designed 2 awards related to theses by graduate students as follows:

- Best Ph.D. Thesis Award
- Best Master Thesis Award

Both of the above awards were created to recognize outstanding performances of student members in the Tainan Section. And all the 2011 award recipients were awarded at annual member meeting in December.

#### B.4.3 Summary of Student branch activities student branch wise with attachment table / information

##### 1. National Cheng Kung University(NCKU) Student Branch

- Date: April 14, 2011 (Thursday)  
Location: UMC Room, B1 Floor, EE Department, NCKU  
Title: Appliances of Electronic Systems  
Attendance: IEEE Student Members and VLSI/CAD Students
- Date: May 5, 2011 (Thursday)  
Location: UMC Room, B1 Floor, EE Department, NCKU  
Title: IEEE 802.16m PHY  
Attendance: IEEE Student Members and VLSI/CAD Students
- Date: December 15, 2011 (Thursday)  
Location: UMC Room, B1 Floor, EE Department, NCKU  
Title: Joint Carrier Synchronization and Channel Equalization Algorithm for OFDM Systems  
Attendance: IEEE Student Members and VLSI/CAD Students

##### 2. National Sun Yat-Sen University(NSYSU) Student Branch

- Date: May 2-4, 2011  
Location: Ambassador Hotel, Kaohsiung, Taiwan  
Title: Support 2011 ICICDT (International Conference on IC Design and Technology)
- Date: August 29 - September 2, 2011  
Location: F6019, Dept. of EE, National Sun Yat-Sen University, Kaohsiung, Taiwan  
Title: Support 2011 First IEEE Circuits and Systems Society Region 10 Summer School
- Date: October 12, 2011  
Location: F6019, Dept. of EE, National Sun Yat-Sen University, Kaohsiung, Taiwan  
Title: Workshop of Reliability Design and Testing Technology of Integrated Circuits

## **B.5 Awards & Recognition Activities**

Our APS Tainan Chapter received “2011 Best Chapter Award” from IEEE Antennas and Propagation Society. Because of hard work by chapter officers: Prof. Hua-Ming Chen, Prof. Wen-Shan Chen and Prof. Shun-Yun Lin, this award went to the APS Tainan Chapter finally. Their dedications to chapter activities were very impressive and worthy to share with other chapters. All three professors were awarded for their “*long-term and distinguished contributions to IEEE Antennas and Propagation Society Tainan Chapter activities*” separately in front of section members at annual member meeting. Congratulations to them.

## **B.6 Communication Activities**

Messages or announcements from the section usually send to section members for their reference via e-mail. Our members and chapter officers also communicate with us on the phone whenever they need if emergency or necessary during office hours. For those not emergency, members often write emails to us for inquiry and will be replied soon. To promote the communication of different society chapters, we’ve designed webpages for each society chapter already formed in the Tainan Section. The interface provides each society chapter more opportunities to communicate with members. The section webpage are updated monthly if there is new information and useful news to members as well at <http://ewh.ieee.org/r10/tainan/>.

## **B.7 Community Activities**

To promote the linking of IEEE organization, technical people, and local residents, Tainan Section held a “Workshop for Intelligent Life Technology” in April, 2011. The workshop contains not only several

lectures about intelligent life technologies, but plan a small exhibition in a display room to make people have interaction with the designs. The workshop invited the Mayor of Tainan city and his office staff to join our program, which can indeed increase the visibility and reputation of IEEE in Tainan city.

## **PART C - GOALS AND PLANS**

### **C.1 Continuation of Project/Activity in Progress and Their Implementation Plans**

- The Tainan Section will help technical parts of 2012 IEEE Asia Pacific Conference on Circuits and Systems (APCCAS 2012), December 2~5, 2012, in Kaohsiung, Taiwan. We will assist in the preparation for APCCAS 2012 and also will promote this exciting event during 2012. The conference chair, Prof. Chua-Chin Wang, also the vice chair of the Tainan Section, is very active and held many IEEE activities such as ICICDT 2011, CASS Region10 Summer School last year.

### **C.2 Goals and Future Plans**

- To assist IEEE members to form new society chapters in the Tainan Section.
- To provide assistance to members of the Tainan Section in their IEEE career.
- To encourage and assist members joining in IEEE activities and award applications.
- To provide support to Student Branches.
- Dissemination of knowledge in the broader fields of electrical and Electronics Engineering through holding of technical talk, seminar, conference, symposium, workshop, tutorial, etc.
- To have more connections and cooperation with industry.