

IEEE Tainan Section

PART A - SECTION SUMMARY

A.1. Executive Summary

A.1.1. Section Executive Committee Member List

Chair: Kuo-Sheng Cheng, kscheng@mail.ncku.edu.tw
 Vice Chair (Deputy): Chung-Ho Chen, chchen@mail.ncku.edu.tw
 Vice Chair (Technical Activities): Gwo-Giun Lee, clee@mail.ncku.edu.tw
 Vice Chair (Conferences): Shu-Mei Guo, guosm@mail.ncku.edu.tw
 Vice Chair (Industry): Jiann-Fuh Chen, chenjf@mail.ncku.edu.tw
 Secretary: Chin-Lung Yang, cyang@mail.ncku.edu.tw
 Treasurer: Ya-Hsin Hsueh, hsuehyh@yuntech.edu.tw
 Professional Activities: Sun-Yuan Hsieh, hsiehsy@mail.ncku.edu.tw
 Membership Development: Lih-Yih Chiou, lihyih@mail.ncku.edu.tw
 Student Activities: Che-Wei Lin, lincw@mail.ncku.edu.tw
 Educational Activities: Peng-Ting Chen, chen@mail.ncku.edu.tw
 Newsletter Editor: Che-Wei Lin, lincw@mail.ncku.edu.tw
 Awards & Recognition Committee Chair: Tsorng-Juu Liang, tjliang@mail.ncku.edu.tw
 Nominations and Appointments Chair: Kuen-Jong Lee, kjlee@mail.ncku.edu.tw

A.1.2. Section Highlights

In the year of 2019, Tainan Section held 1 annual meeting, and 12 administrative meetings. Further, Tainan Section provided supports to our affiliated chapters in organizing their professional related activities. In total, there were 83 technical activities held by our chapters in the year of 2019

A.1.3. Major Events

In the year of 2019, Tainan Section kept putting high efforts in institutionalization of our section administrative and also financial operation process with anticipation of sustainability. Cooperating with the Engineering and Technology Promotion Center, MOST, we aimed to design our section operation procedure in being seamless and without any idling period in between two section chair's transfer. Further, the section provided banking and accounting supports to the conferences held by our chapters and members.

Several main technical activities are listed in the followings. 10 keynote speakers were invited to 10 technical activity distinguished lectures:

1. Jiann-Shiun Yuan,
2019/03/14, GaN Power Device Characterization and Reliability Analysis
2. Zi-Long Liu,
2019/03/18, Sparse or Dense: Codebook Selection for Enhanced NOMA Systems
3. Lin Cai,
2019/04/10, Multi-hop wireless pipeline powering Internet-of-Things
4. Jun Ohta,
2019/04/24, Image sensors for biomedical applications
5. Philip Wong,
2019/04/26, The Trend for Nano device and Material
6. Seji Samukawa,
2019/05/10, Creating Green Nanostructures and Nanomaterials for Advanced Energy Nano devices
7. Rui-Lien Tseng,
2019/06/02, Popular Science in Electromagnetic wave
8. Jian-Xin Shen,
2019/06/22, High Speed Permanent Magnet AC Machines and Vehicle Applications
9. Behrooz Parhami,
2019/06/24, Eight Key Ideas in Computer Architecture from Eight Decades of Innovation
10. Michel Chu,
2019/11/15, Research Commercialization - Musings of an early stage venture capitalist

A.1.4. Major Chapter Activities

In 2019, the Broadcast Technology Society Tainan Chapter was very active in organizing technical activities. “5G Development And Digital Countries” was held on October 23, 2019 and resulted in a very successful activity with around 140 attendances. Further in 2019, BT Chapter held 15 more technical activities. BT Chapter Chair, Prof. Chih-Peng Li, worked hard to apply for support from IEEE BT Society.

A.1.5. Awards

2019 was the 8th IEEE Tainan Section Annual Awards which consists of 8 different awards. Following winners were selected from 24 nominees after thorough review by 1 Awards Chair and 9 reviewers.

Best Master Thesis Award - Firhan Huzaefa and Hung-Ying Chang

Best Ph.D. Thesis Award - Chia-Ying Lin

Best Young Professional Member Award - Yung-Jr Hung, Shao-Yu Lien and Kuang-Wei Cheng

Outstanding Technical Achievement Award - Jiann-Fuh Chen, Cheng-Hong Yang and Ching-Wen Tang

Best Service Award - No award given

IEEE Tainan Section Macronix Award - No award given

IEEE Tainan Section Himax Award - Chia-Lung Wu

IEEE Tainan Section Delta Award – Le-R Chang Chien

A.2. Financial Report

Tainan Section supported all programs and activities at both the section and chapter levels in 2019. To encourage and promote student activities, Tainan Section provided budget for supporting Conferences. In 2019, the income was TWD 1,166,725 and the expense was TWD 1,066,939. Thus the final balance is TWD 4,270,007 as of December 31, 2019.

PART B - ORGANIZATIONAL ACTIVITIES

B.1. Membership Development Activities

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

Grade	2017	2018	% Change	2019	% Change
Life Fellow	3	4	33.33%	5	25.00%
Fellow	16	16	0.00%	17	6.25%
Life Senior	-	1	-	2	100.00%
Life Member	1	1	0.00%	1	0.00%
Senior Member	116	116	0.00%	116	0.00%
Member	522	485	-7.09%	491	1.24%
Associate Member	19	12	-36.84%	13	8.33%
Affiliate	17	12	-29.41%	17	41.67%
Graduate/Student	174	192	10.34%	213	10.94%
Individual	-	1	-	1	0.00%
TOTAL	868	840	-3.23%	876	4.29%

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

Recruiting new student member is one of the main focus of Tainan Section. We provided subsidies for the student member first year with half membership fee and supported selected student in attending international conference.

Besides, we opened all the activities held by the section or chapters to non-member participants under the consideration of letting more people know IEEE by providing information on new technologies in every specialized research area. In 2019, we had 1,940 members and 9,494 nonmembers who participated in Tainan Section's activities.

B.2. Chapter Activities

B.2.1. Total number of Chapters and Affinity Groups in the Section

Currently there are 15 Chapters, 1 Council Chapter, 2 Affinity Groups, and 2 Student Branches in the Tainan Section. The detailed information is as follows:

1. Antennas and Propagation Society Tainan Chapter / Shu-Chuan Chen
2. Broadcast Technology Society Tainan Chapter / Chih-Peng Li
3. Computer Society Tainan Chapter / Sun-Yuan Hsieh
4. Circuits and Systems Society Tainan Chapter / Kuang-Wei Cheng
5. Computational Intelligence Society Tainan Chapter / Hung-Yu Kao
6. Communications Society Tainan Chapter / Tsung-Hsien Liu
7. Electron Devices Society Tainan Chapter / Wen-Kuan Yeh
8. Engineering in Medicine and Biology Society Tainan Chapter / Kuo-Sheng Cheng
9. IEEE Young Professionals Tainan Chapter / Ing-Chao Lin
10. Information Theory Society Tainan Chapter / Trieu-Kien Truong
11. Microwave Theory and Techniques Society Tainan Chapter / Janne-Wha Wu
12. Nanotechnology Council Tainan Chapter / Yu-Cheng Lin
13. Systems, Man, Cybernetics Tainan Chapter / Po-Hsun Cheng
14. Signal Processing Society Tainan Chapter / Mong-Fong Horng
15. Solid-State Circuit Society Tainan Chapter / Tsung-Heng Tsai
16. Vehicular Technology Society Tainan Chapter / Chiao-En Chen
17. Women in Engineering Tainan Chapter / Shu-Mei Guo
18. Sensors Council Chapter Tainan Chapter / Teen-Hang Meen
19. National Cheng Kung University Student Branch / Che-Wei Lin
20. National Sun Yat-sen University Student Branch / Che-Wei Lin

B.2.2. Chapter Activities

Chapter Name	Administrative	Nontechnical	Technical	Professional	Sub-Total
Tainan Section	12		1		13
AP03			3	3	6
BT02			15		15
C16			4		4
CAS04	1		5	5	11
CIS11			2		2
COM19			3		3
ED15			4	2	6
EMB18	1		3		4
IT12			6		6
MTT17			4		4
NANO42			2		2
SEN39			6		6
SMC28			2	9	11
SP01		2	4		6
SSC37			2		2
VT06			7	1	8
Women in Engineering			7		7
Young Professionals			3	4	7
Total	14	2	83	24	123

#	Meeting Title	Meeting Date	Total	Member	Non-Member	Event Category
Section						
1	Regular meeting	2019/1/28	17	3	14	Administrative
2	Regular meeting	2019/3/13	20	3	17	Administrative
3	Regular meeting	2019/4/24	20	3	17	Administrative
4	Regular meeting	2019/5/31	20	3	17	Administrative
5	Regular meeting	2019/6/25	20	3	17	Administrative
6	Meeting of Director & Supervisor	2019/7/11	22	16	6	Administrative
7	Regular meeting	2019/7/23	20	3	17	Administrative
8	Regular meeting	2019/8/30	20	3	17	Administrative
9	Meeting of Director & Supervisor	2019/9/20	27	17	10	Administrative
10	Regular meeting	2019/9/30	20	3	17	Administrative
11	Regular meeting	2019/10/31	20	3	17	Administrative
12	Annual meeting	2019/11/15	91	78	13	Technical
13	Regular meeting	2019/12/5	20	3	17	Administrative

AP03						
1	Microwave Antenna Measurement Forum	2019/3/21	100	10	90	Technical
2	Introduction of the 5th generation communication	2019/4/27	35	3	32	Professional
3	Popular Science in Electromagnetic wave	2019/6/2	105	5	100	Technical
4	AI Cyber Design Summer Camp	2019/6/27	20	5	15	Professional
5	2019 IAET Summer Seminar	2019/6/28	140	10	130	Technical
6	Introduction of the 5G SAR specification	2019/10/19	17	2	15	Professional
BT02						
1	Distributed Optimization in Wireless Relay Networks	2019/2/26	140	20	120	Technical
2	Phase-times Synchronization and Its Impact to 4G/5G Performance	2019/3/25	140	20	120	Technical
3	5G Development Status Update	2019/3/26	140	20	120	Technical
4	Optimization issues in learning with the logarithmic loss	2019/4/9	140	20	120	Technical
5	Blockchain Technology and Data Economics	2019/4/16	140	20	120	Technical
6	Circular Economy and Data Economy Cross-Border Intersection	2019/5/21	140	20	120	Technical
7	Information security is 5G and IoT security under the national security strategy	2019/5/31	140	20	120	Technical
8	Applying Compressive Sensing to the Channel Estimation for OFDM systems	2019/6/4	140	20	120	Technical
9	5G Development And Digital Countries	2019/10/23	140	20	120	Technical
10	Transceiver Design for Full Duplex Radios under Spectrum Sharing Environments	2019/10/25	140	20	120	Technical
11	Internet of things applications for green building energy management	2019/10/29	140	20	120	Technical

12	IC design industry trends	2019/11/1	140	20	120	Technical
13	Dancing with insects: Gastrointestinal organisms from an ecological symbiosis point of view	2019/11/5	140	20	120	Technical
14	Machine Learning Radio Resource Management for Future Cellular Mobile Networks	2019/11/8	140	20	120	Technical
15	From Feedforward-Designed Convolutional Neural Networks (FF-CNNs) to Successive Subspace Learning (SSL)	2019/12/13	140	20	120	Technical
C16						
1	Seminar : Tainan Section Chapter,C16	2019/6/24	43	3	40	Technical
2	AI : A Networking and Communication Perspective	2019/8/8	105	5	100	Technical
3	Seminar : Tainan Section Chapter,C16	2019/9/19	83	3	80	Technical
4	2019 Next Generation Communication	2019/10/29	160	10	150	Technical
CAS04						
1	Modular Arithmetic based Circuits and Systems for Emerging Technologies and Applications: Deep Neural Networks and Cryptography	2019/1/24	40	15	25	Professional
2	Deep Learning Optimization for Edge AI Device from Hardware Architecture to Software	2019/3/14	60	10	50	Professional
3	Rapid Evolution of Disruptive Digital Transformation to Society 5.0. Global Trend on Impact of Fintech by AI and Blockchain Technology	2019/3/21	60	10	50	Professional
4	Quantum computing and quantum optics with superconducting circuits	2019/3/28	70	10	60	Professional
5	Clustering Phenomena in Coupled Oscillatory Systems Inspired by Brain Networks with Different Frequency	2019/4/9	30	10	20	Professional
6	Cross-disciplinary Challenges: From IC Design to Motor Industry	2019/5/23	52	12	40	Technical
7	IEEE SSCS/CASS Annual Member Meeting	2019/8/7	32	32	0	Administrative
8	Algorithm/Architecture Co-design for Intelligent Hardware Systems in Parallel/Reconfigurable Edge	2019/8/8	25	25	0	Technical
9	Scaling the Machine Learning Hardware Memory Wall	2019/12/12	85	65	20	Technical
10	Hardware Supported Cybersecurity for IoT	2019/12/13	45	20	25	Technical
11	Bio-Sensor System in Human Health Care Application	2019/12/26	55	50	5	Technical
CIS11						
1	Organizing a speech on Manufacturing Data Science	2019/5/23	53	3	50	Technical

2	Organizing a speech on conversational AI	2019/10/31	66	6	60	Technical
COM19						
1	2019 Taiwan Telecommunications Annual Meeting	2019/1/23	764	310	454	Technical
2	The 2019 Taiwan Workshop on Information Theory and Communications	2019/8/22	150	55	95	Technical
3	Startup Fourm-New Entrepreneurial Personality Both internal and external	2019/10/7	75	15	60	Technical
ED15						
1	DL talk in ED tainan chapter	2019/3/14	53	18	35	Technical
2	Distinguished Lecturer	2019/3/14	48	14	34	Professional
3	Symposium on Device Technology 2019	2019/4/26	255	35	220	Technical
4	IEEE Distinguished Lecturer	2019/5/10	35	10	25	Professional
5	DL talk at Tainan, Taiwan on May 10, 2019. Dr. Seji Samukawa	2019/5/10	60	10	50	Technical
6	IEEE EDS Distinguished Lecture	2019/10/9	40	15	25	Technical
EMB18						
1	BME Tainan chapter administration meeting	2019/8/17	5	5	0	Administrative
2	Invited Talk	2019/9/26	103	11	92	Technical
3	Invited Talk	2019/10/17	101	12	89	Technical
4	Invited Talk	2019/12/12	51	5	46	Technical
IT12						
1	Invited talk: Sparse or Dense: Codebook Selection for Enhanced NOMA Systems	2019/3/18	23	3	20	Technical
2	Invited talk: Research methods in engineering	2019/5/9	62	2	60	Technical
3	Invited talk: Signal Processing on Sparse Arrays From Viewpoint of Difference Coarrays	2019/5/23	54	2	52	Technical
4	Invited talk: From Digital Signal Processing to Machine Learning	2019/7/18	28	3	25	Technical
5	Invited talk: Conjugate ICI cancellation techniques for 2x1 and 4x1 space time transmit diversity OFDM systems	2019/12/18	22	2	20	Technical
6	Invited talk: Convolutional neural network for shark behavior study	2019/12/19	63	3	60	Technical
MTT17						
1	MTT-S Tainan Chapter Member Meeting & Academic Speech	2019/5/23	56	15	41	Technical
2	MTT-S DML Speech for Tainan Chapter	2019/8/1	38	9	29	Technical
3	Bio-Seminar on Cell Sensing	2019/8/2	45	20	25	Technical

4	[IEEE MTT-S][Tainan Chapter] 2019 December Invited Talk	2019/12/6	54	9	45	Technical
NANO42						
1	Simulating Open Quantum Systems with Hamiltonian Ensembles and the Nonclassicality of the Dynamics	2019/3/14	100	10	90	Technical
2	Decoding the atomic structure of bone: molecular insights into brittle bone disease	2019/3/21	100	10	90	Technical
SEN39						
1	2019 International Conference of Intelligent Applied Systems on Engineering (ICIASE 2019)	2019/4/27	120	20	100	Technical
2	2019 IEEE Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability (ECBIOS)	2019/5/31	120	20	100	Technical
3	2nd IEEE International Conference on Knowledge Innovation and Invention 2019 (IEEE ICKII 2019)	2019/7/13	150	50	100	Technical
4	2019 IEEE Eurasia Conference on IOT, Communication and Engineering (IEEE ECICE 2019)	2019/10/3	210	30	180	Technical
5	2019 International Conference on Computation, Communication and Engineering (ICCCCE 2019)	2019/11/8	150	20	130	Technical
6	2019 International Conference on Architecture, Construction, Environment and Hydraulics (ICACEH 2019)	2019/12/20	120	20	100	Technical
SMC28						
1	IEEE SMC Tainan Chapter Meeting	2019/2/14	7	7	0	Technical
2	FML Wisdom Decision-making Tool Workshop (Tainan)	2019/2/16	44	4	40	Professional
3	Agile Development Methods	2019/3/14	23	3	20	Professional
4	The Road to Build a Digital Company	2019/3/15	103	3	100	Professional
5	2019 Industrial Robot Competition	2019/3/16	44	4	40	Professional
6	FML Wisdom Decision-making Tool: AI Knowledge Application and System Implementation Invitation Contest (Kaohsiung)	2019/3/30	44	4	40	Professional
7	Industry Analysis Method Practice & Industry Trend Prospects	2019/4/19	93	3	90	Professional
8	FML Wisdom Decision-making Tool Workshop (Kaohsiung)	2019/4/20	34	4	30	Professional
9	FML Wisdom Decision-making Tool: AI Knowledge Application and System Implementation Invitation Contest (Tainan)	2019/5/4	54	4	50	Professional
10	2019 Immersive Interactive Contest: VR Game Design	2019/10/4	104	4	100	Professional
11	IEEE SMC Tainan Chapter Meeting	2019/12/22	7	7	0	Technical
SP01						
1	Regular meeting : Tainan Section Chapter,SP01	2019/2/18	5	5	0	Nontechnical
2	Lecture of Artificial Intelligent for Real-world Applications in Health and Individual Care	2019/3/28	139	23	116	Technical
3	Sponsorship of 2019 National Innovative Electronic Design Contest	2019/4/13	450	10	440	Technical
4	Symposium on Digital Life Technologies	2019/6/22	163	32	131	Technical
5	Regular meeting	2019/7/15	5	5	0	Nontechnical

6	keynote Speech - Digital Transformation of Industrials in IoT Era	2019/12/30	41	6	35	Technical
SSC37						
1	Distinguish Lecture: Image sensors for biomedical applications	2019/4/24	46	26	20	Technical
2	SSC DL Talk	2019/8/8	54	28	26	Technical
VT06						
1	Seminar Talk (Title: Fog Computing and Networking for Video QoE Enhancement: System Design, Testbed, and Standard Activities)	2019/3/29	152	2	150	Technical
2	VT Society Distinguished Lecture at VTS Tainan Chapter	2019/4/10	18	3	15	Technical
3	Seminar Talk (Title: Title: Journey to 5G and Beyond)	2019/4/19	153	3	150	Technical
4	Lecture: Service Provisioning in 5G Communication Networks	2019/6/6	30	6	24	Professional
5	Service Provisioning in 5G Communication Networks	2019/6/6	36	6	30	Technical
6	Distinguished Lecture: High Speed Permanent Magnet AC Machines and Vehicle Applications	2019/6/22	66	11	55	Technical
7	IEEE VTS Distinguished Lecture (Title : High Speed Permanent Magnet AC Machines and Vehicle Applications)	2019/6/22	66	11	55	Technical
8	Panel Discussion of 2019 IEEE Taiwan Workshop on Information Theory and Communications	2019/8/22	95	15	80	Technical
WOMEN IN ENGINEERING						
1	A Theory of Spectral Clustering	2019/1/4	158	14	144	Technical
2	The Career of Engineer	2019/3/22	289	19	270	Technical
3	World leading AI technologies on multimedia applications	2019/3/29	278	17	261	Technical
4	FinTech Workshop	2019/5/10	286	16	270	Technical
5	Development and application of drone group flying technology by Taiwan Drone 100	2019/5/24	268	14	254	Technical
6	Open Source Workshop	2019/6/14	192	11	181	Technical
7	QoE and Immersive Media	2019/9/20	186	14	172	Technical

YOUNG PROFESSIONALS						
1	NVIDIA Inference IC and Deep learning trends in various fields of application	2019/5/15	45	15	30	Professional
2	Startup Fourm-New Entrepreneurial Personality Both internal and external	2019/10/7	63	13	50	Professional
3	2019 Innovation And Startup Competition For Intelligent Life Workshop	2019/10/15	75	15	60	Professional
4	2019 Innovation And Startup Competition For Intelligent Life Workshop	2019/10/17	75	15	60	Professional
5	5G antenna on package	2019/11/21	22	2	20	Technical
6	NVIDIA Hardware Introduction and Deep Learning Research	2019/12/3	45	5	40	Technical
7	Microwave Holographic Imaging	2019/12/23	203	3	200	Technical

B.3. Professional and Continuing Education Activities

N/A

B.4. Students Activities

B.4.1 Total number of Student branches in the Section

There are two Student Branches in Tainan Section:

- National Cheng Kung University Student Branch (est. 2005)
- National Sun Yat-sen University Student Branch (est. 2006)

Student activities held in 2019 for student members are listed in B.4.3.

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

Tainan Section grants annual awards to encourage and recognize our members for their achievements in research. One awards are dedicated specifically to our student member:

- Best Master Thesis Award

In the year of 2019, graduated student members, Firhan Huzaefa and Hung-Ying Chang, were awarded in the 2019 IEEE Tainan Section Annual Meeting.

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

1. National Cheng Kung University Student Branch

IEEE Tainan Section organized a mini-hackathon to the students from Mahidol University (Thailand), Ho Chi Minh City Medicine and Pharmacy University (Vietnam), University of Malaya (Malaysia). There were 35 students participated in the mini-hackathon. The theme is focused on medical device innovation. The concept of BioDesign, unmet needs screening, needs identification, prototyping was introduced during mini-hackathon.

2. National Sun Yat-sen University Student Branch

N/A

B.5 Communication Activities

Home Page of the section : <http://ewh.ieee.org/r10/tainan/>

Other means of contacts with section members: The mostly used means of contacts with our affiliated chapters or members are email and phone. Information about IEEE, conferences, or activates held by our chapters are announced via emails.

PART C - GOALS AND PLANS

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

C.2 Goals and Future Plans

In the year of 2020, IEEE Tainan Section will further promote globalization and will continue

- To encourage the establishment of new society chapters.
- To provide assistance to members of the Tainan Section in their IEEE career.
- To encourage and assist members participating 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 organizing of technical talk, seminars, conferences, symposiums, workshops, tutorials, etc.
- To activate the connections and cooperations with the industry.

The following activities and plans will be initiated by our chapters in 2020.

- Antennas and Propagation Society Tainan Chapter
 - (1) Attend 2020 ISAP and ISC Meeting
 - (2) Host 2020 Annual Membership Meeting
 - (3) Continuing Education Activities
 - (4) Industrial Relation Activities

- Computer Society Tainan Chapter
 - (1) Invite scholar to give academic speeches and conduct workshop.

- Computational Intelligence Society (CIS) Tainan Chapter
 - (1) Plan to support the organization of the 8th International Workshop on Natural Language Processing for Social Media (SocialNLP) 2020.
 - (2) Plan to organize talks from international speakers.

- Communications Society Tainan Chapter
 - (1) 2020 Taiwan Telecommunications Annual Symposium and Spring Workshop on Information Theory and Communications, Kao-Shiung, Taiwan.
 - (2) 2020 Fall Workshop on Information Theory and Communications

- Electron Devices Society Tainan Chapter
 - (1) IEEE Distinguished Lecturer Program
Two Distinguished Lecturer will be invited.
Place: Tainan/Kaohsiung or South Taiwan
 - (2) 2020 Symposium on Nano Device Technology.
Topic: Nanoelectronic Devices and Technology, Emerging Memory Devices, MEMS Sensors, High-Frequency Technology and Applications, Nano Metrology Technology and Applications
Date/Place: May, 2020, Taiwan Semiconductor Research Institutes, HsinChu, Taiwan.
 - (3) 2020 Workshop of Quantum Computing
Topic: Emerging Devices for Quantum Computing
Date/Place: Sept, 2020, Taiwan Semiconductor Research Institutes, HsinChu, Taiwan.

- Microwave Theory and Techniques Society Tainan Chapter
 - (1) Two DML Lectures in 2020, James Schellenberg (JS) and Jon Martens (JM)

- Nanotechnology Council Tainan Chapter
 - (1) Planning to hold councils
 - (2) Planning to invite presentation

- Vehicular Technology Society Tainan Chapter
 - (1) Distinguished Lectures: Date : to be scheduled on 2019/11~2020/06, if any VTS distinguished lecturer would like to visit.
 - (2) VTS Tainan Chapter members meeting : Date : to be scheduled on 2020/4~2020/6
 - (3) Invited talks from domestic/overseas speakers (at least two) : Date: the 1st one is to be scheduled on 2019/11~2020/6; the 2nd one is to be scheduled on 2020/8~2020/12

- Women in Engineering
 - (1) In the following year, we will invite at least three female speakers (one from the academia and two from the industrial) to share their experiences of making studying or career plans. Also, each of them will point out the challenges she have gone through before becoming a brilliant star in her field. The meetings/workshops will be held in the campus of National Cheng Kung University. We are going to invite not only the members of IEEE Tainan Section but also students in EE/CSIE departments of National Cheng Kung University to joint these events.

- Sensors Council Society Tainan Chapter
 - (1) 2020 Eurasian Conference on Educational Innovation (ECEI 2020); <http://www.ecei.asia>
 - (2) 2020 IEEE Eurasia Conference on Biomedical Engineering Healthcare and Sustainability (IEEE ECBIOS 2020)
 - (3) 2020 IEEE International Conference on Knowledge Innovation and Invention (IEEE ICKII 2020)