



IEEE South Saskatchewan Section
Annual Report
2020

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1. Message from Section Chair



I am pleased to welcome you to the IEEE South Saskatchewan section. With the support of our section's Executive Committee (EXCOM) members, we have achieved all of our goals for 2020. One of the most challenging tasks during the COVID-19 pandemic was transitioning from face-to-face to a virtual mode of operation. The section achieved a smooth transitioning to a virtual environment and is continuing its activities remotely. The section has maintained members' engagement in various IEEE activities including, monthly meetings, seminars, and virtual social events. We are proud to report that the number of seminars and events has increased compared to 2019. In 2020, the section had 13 virtual events, including the AGM, which was well attended by members from the South Saskatchewan section and sections from Region 7. In cooperation with the North Saskatchewan section, the IEEE South Saskatchewan section has submitted the intent to host the 2023 annual IEEE Canadian Conference on Electrical and Computer Engineering (CCECE). Like other sections in Region 7 and around the world, we have experienced issues with membership retention due to the COVID-19 pandemic. However, in 2021, the section has made it a priority to deal with membership retention and growth. In 2021, the section will lead the effort in organizing the CCECE 2023. One of the section's goals in 2021 is to establish the IEEE WIE Affinity Group. I take this opportunity to thank the EXCOM members for their hard work and dedication.

2. Executive Committee Officers



Dr. Irfan Al-Anbagi
Chair



Dr. Raman Paranjape
Vice-Chair



Dr. Kin-Choong Yow
Secretary



Jason Whitelaw
Treasurer



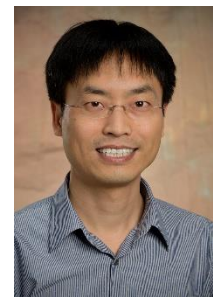
Brent Maksymiw
Membership
Development



Shahedur Rahman
Membership
Dev. (Co-Chair)



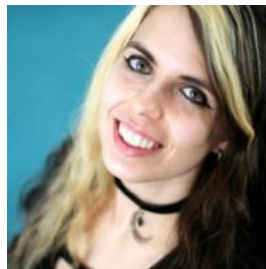
Dr. Raman Paranjape
Professional
Activities



Dr. Zhanle Wang
Educational
Activities



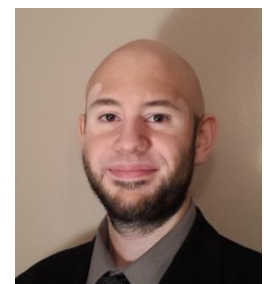
Usman Munawar
Student Activities



Tessa Herzberger
Grad Student Rep



Victor Edoho
TISP Coordinator



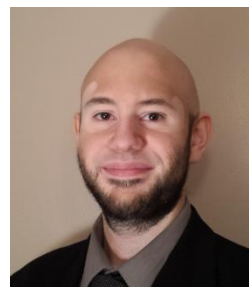
Adam Tilson
Webmaster



Moeed Shamim
eNotice Coordinator



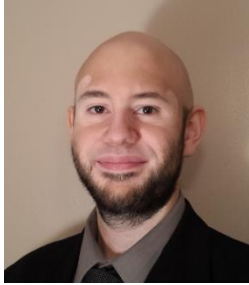
Moeed Shamim
vTools Coordinator



Adam Tilson
Regina Eng. Soc. Rep

3. Chapters and Affinity Group Officers

South Sask Section Computer Chapter



Adam Tilson
Chair

South Sask Section Power & Energy Society (PES)/Industrial Applications Society (IAS) Joint Chapter



Usman Munawar
Chair

South Sask Section YP Affinity Group



Moeed Shamim
Chair



Jason Whitelaw
Vice-Chair

4. Financial Report

Income Statement Detail FY 2020

| | |
|---|------------|
| Ordinary Income/Expense | |
| Income | |
| 1.20 - Received from Corporations | \$86.40 |
| 3.10 - Rebate from IEEE HQ | \$3,708.43 |
| 3.34 - IEEE HQ & Societies | \$892.85 |
| Total - Income | \$4,687.68 |
| Gross Profit | \$4,687.68 |
| Expense | |
| 4.10 - Meetings & Social Events Expense | \$1,972.33 |
| 4.30 - Advertising Expense - IEEE | \$320.55 |
| 4.50 - Conference Expenses | \$300.00 |
| 4.60 - Educational Activities Expense | \$100.00 |
| 4.80 - Student Activities Expense | \$300.00 |
| 5.20 - Travel Expense | \$333.39 |
| Total - Expense | \$3,326.27 |
| Net Ordinary Income | \$1,361.41 |
| Net Income | \$1,361.41 |

Balance Sheet FY 2020

| | |
|-----------------------------------|-------------|
| Assets | |
| Cash | \$38,312.87 |
| Total Assets | \$38,312.87 |
| Liabilities and Net Assets | |
| Reserves | \$35,000.00 |
| Total Liabilities | \$35,000.00 |
| Net Assets | |
| Operating Funds | \$3,312.87 |
| Total Net Assets | \$3,312.87 |
| Total Liabilities and Net Assets | \$38,312.87 |

5. Awards

5.1 2020 IEEE Power & Energy Society (PES) Outstanding Student Scholarship

Our Executive Committee officer, Usman Munawar, was one of five graduate students who was awarded the 2020 IEEE Power & Energy Society (PES) Outstanding Student Scholarship.



This scholarship recognizes PES Student Members from around the world who have chosen an academic path leading to an electric power and energy engineering career. Recipients were chosen based on their academic achievements, contributions to meeting community and humanitarian needs, and leadership in advancing student engagement within PES. All recipients will receive US\$10,000 and complimentary housing and conference registration at a corresponding PES Regional Conference.

"We are very pleased to recognize these students as the inaugural recipients. These students represent the very best of the 10,000+ PES student members," announced Edvina Uzunovic, IEEE PES Vice President – Education. "They have taken leadership roles within the IEEE PES Student Branch Chapters, been active in supporting humanitarian projects, have maintained the highest academic achievement and have a strong desire to improve the Power & Energy industry." These scholarships are supported by the IEEE Power & Energy Society Outstanding Student Scholarship Fund of the IEEE Foundation. More information on this scholarship can be found at <https://www.ieee-pes.org/ieee-power-energy-society-outstanding-student-scholarship>.

Usman Munawar had expressed a great capability in study and research during graduate engineering program at University of Regina, Canada with high GPA (94%/4) and 12 journal/conference publications. Furthermore, he actively engaged in industry outreach for example (1) worked with Nexon Solar (summer) (2) contributed to Hatch Power Technology Day Symposium and (3) did RTDS Training (Manitoba, Canada). In addition, he exhibited great leadership and communications skills in promoting humanitarian needs and advancing student engagement within PES for instance formation of PES/IAS Student/Technical Chapters and involvement in IEEE Smart Village Project (Nepal), IEEE IAS CMD Humanitarian Contest Subcommittee (chair), 8 International Talks, etc. His commitment and devotion to serve in different IEEE communities including IEEE South Sask., IEEE PES, IEEE IAS and IEEE Canada R7 was proven with his effective initiatives such as IEEE APES, IEEE ICECE Conference and Workshops, etc. In short, his balanced contributions in study, research, leadership, student and humanitarian activities made him a suitable candidate for IEEE PES Outstanding Student Scholarship Award.

5.2 2020 IEEE Canada Young Professionals Affinity Group of the Year Award

The 2020 IEEE Canada Young Professionals Affinity Group of the Year Award has been awarded to The IEEE South Saskatchewan Young Professionals Affinity Group in recognition of their outstanding performance and contributions to YPs' engagement during the 2020 unusual year. The IEEE South Saskatchewan YPAG defeated runner-ups IEEE Ottawa YPAG and IEEE Montreal YPAG to clinch the award, which consists of a plaque and a \$500 cash award transferred to the Section that can be used for organizing further events.

Congratulations to the IEEE South Saskatchewan YPAG!



6. Reports

6.1 Membership Development

As of November 19, 2020, we have a total of 125 members in the following grades:

| Grade | Number |
|-------------------------|---------------|
| Affiliate | 3 |
| Associate Member | 1 |
| Graduate Student Member | 12 |
| Life Member | 9 |
| Life Senior | 2 |
| Member | 71 |
| Senior Member | 7 |
| Student Member | 20 |
| Grand Total | 125 |

Among them, we have 34 new members (grade effective date after 1 Jan 2020 and not previously a member at other grades).

6.2 Professional Activities

The following webinars were hosted:

- **“Grid Modernization: Technological Advancements Beyond Smart Grid”**, by John D. McDonald, P.E. of GE Grid Solutions. Date: 19 Nov 2020, Time: 05:00 PM to 06:00 PM
- **“Efficient Methods for Computing Trust in Multi-Agent Systems”** by Dr. Sandra Zilles, Professor and Canada Research Chair, University of Regina. Date: 17 Nov 2020, Time: 02:00 PM to 03:00 PM
- **“Evaluating Flexibility Service Provision of Distributed Photovoltaic-Battery Systems”**, by Dr. Pierluigi Siano, Professor and Scientific Director of the Smart Grids and Smart Cities Laboratory with the Department of Management & Innovation Systems, University of Salerno, Italy. Date: 26 Oct 2020, Time: 09:00 AM to 10:00 AM
- **“Energy Efficiency in Smart Buildings through IoT Sensor Integration”** by Prof. Dr. Saifur Rahman of Advanced Research Institute at Virginia Tech, USA. Jointly hosted by IEEE South Sask Section and IEEE North Sask Section. Date: 11 Aug 2020, Time: 05:00 PM to 06:00 PM
- **“Dreams of Virtual Reality”**, by Dr. David Gerhard of Department of Computer Science, University of Regina. Date: 11 Jun 2020, Time: 02:30 PM to 03:30 PM
- **“Digital Control Systems in Industrial Chemical Plants”**, by Travis of Yara Belle Plaine Inc. Date: 11 Mar 2020, Time: 11:30 AM to 12:45 PM

- “**CT114 Case Study – Instrument Landing System Glideslope indications**”, by Capt K.S.Z. Pilatzke of Canadian Armed Forces / Government of Canada. Date: 07 Feb 2020, Time: 10:30 AM to 11:30 AM

6.3 Educational Activities

The following workshop and seminar were organized:

- Workshop on "**Soft Skills (Communication and Leadership) For Engineers**". Date: 13 Mar 2020, Time: 01:30 PM to 03:00 PM
- Seminar on "**How to Write a Strong Discussion and Results Section in a Journal Article**". Date: 27 Feb 2020, Time: 01:00 PM to 02:45 PM

6.4 Power & Energy Society (PES) / Industrial Applications Society (IAS) Joint Chapter

The following hands-on workshops were organized:

- Hands on Workshop on "**MATLAB for Optimization Problems and Case Studies**". Date: 04 Mar 2020, Time: 01:00 PM to 02:30 PM
- Hands on Workshop on "**Python for Engineers and Industrial Applications**". Date: 11 Feb 2020, Time: 11:30 AM to 02:30 PM

6.5 Young Professionals (YP) Affinity Group

The following events were organized:

- **IEEE Virtual Scavenger Hunt**, Date: 28 Aug 2020, Time: 06:00 PM to 06:45 PM
- **Rockwell Automation Complimentary E-learning Course for IEEE Members**. Registration was opened until June 30, 2020.

The following events were supported:

- “**Demonstration Of Education Activities Resources**”, Hosted by IEEE Canada EA. Date: 12 Nov 2020, Time: 07:00 PM to 08:00 PM
- Webinar on “**Measurement, Control And Protection In Smart Grid Energy Management Systems For Smart Buildings In A Smart City**”, by Prof. Dr. Saifur Rahman of Advanced Research Institute at Virginia Tech, USA. Hosted by IEEE Ottawa Section. Date: 30 Jul 2020, Time: 04:30 PM to 05:30 PM
- Webinar on “**Role Of The Smart Grid In Facilitating The Integration Of Renewables**”, by Prof. Dr. Saifur Rahman of Advanced Research Institute at Virginia Tech, USA. Hosted by IEEE Ottawa Section. Date: 28 Jul 2020, Time: 04:30 PM to 05:30 PM

The YP Affinity Group also cohosted all events with professional activities, educational activities and the PES/IAS chapter.