

CKC 2021 SUMMARY REPORT

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THE ASSOCIATION OF KOREAN-CANADIAN SCIENTISTS AND ENGINEERS



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SUMMARY REPORT

CKC 2021

Canada-Korea Conference on Science & Technology

September 1-4, 2021

Halifax Convention Centre and Sutton Place Hotel Halifax, Nova Scotia, Canada

AKCSE hosts 11th Canada Korea Conference (CKC) on Science and Technology

The Association of Korean-Canadian Scientists and Engineers (AKCSE) was established in 1986 as a non-profit professional organization and has grown to nearly 3,000 registered members with 11 Local Chapters, 16 University Chapters, 7 Young Professional Societies, and 4 Professional Societies across Canada. With a theme "New Opportunities in the New Normal", AKCSE successfully hosted 11th CKC in person & online with over 480 participants with 14 Sponsoring Organizations.

CKC 2021 OVERVIEW

- Date September 1(Wed) 4 (Sat), 2021
- Venue Halifax Convention Centre, Halifax, Nova Scotia, Canada & Online
- Theme New Opportunities in the New Normal
- Co-Organizers Korean Federation of Science and Technology Societies (KOFST) Association of Korean-Canadian Scientists and Engineers (AKCSE)







COMETOGETHERNS

A CONFERENCE ON





CKC 2021 KEY EVENTS

- 5th ST&I Forum: Climate action strategies toward carbon neutrality - SDG: Carbon Neutrality 1&2
- NST: AI Roundtable
- NST KGRIs S&T Ambassador Credential Ceremony
- Korean Government Research Institutes R&D Brainstorming Forum
- Funding Agency: KEIT and KIAT
- Young Generation & Young Professional Conference
- Technical Session & Research Showcase
- R&D Funding Information Session
- KOFWST & KWSE



CKC 2021 BY THE NUMBERS

About 500 Participants 107 YG and YP Participants (Canada: 80 and Korea: 27) 6 Young Generation and Young Professional Programs 17 Special Sessions, 1 Technical Session, 1 Research Showcase 5 Forums and 2 Workshops 30 Research Presentations, 15 Research Proposal Presentations, 20 Poster Presentations 14 Sponsoring Organizations



Remarkable Experiences at CKC 2021

CKC is the most important activity of the AKCSE. Since 2011, the annual conference has been an excellent opportunity for presenting our latest research, innovative proposals, and networking. CKC 2021 was a great success comprising technical programs, special sessions, and the Young Generation and Young Professional programs.

OPENING CEREMONY













PLENARY SESSIONS



Title: Modern Li-ion cells: More than 1 Million Miles and a Possibly a Century of Life

Dr. Jeff Dahn (Dalhousie University)





Title: Biomimetic Computer Vision: Science to Applications Dr. James H. Elder (York University)



CKC Welcomes AKCSE Family & Delegates

CKC 2021 was an excellent opportunity for exchanging our latest research and technologies on the New Opportunities in the New Normal. Research collaboration sessions provided overview and potential of Korea-Canada ST&I collaboration landscape and its challenges.





BANQUET















Building a Solid Strategic Partnership

Korea and Canada are on a path to success through greater collaboration in Science, Partnership in 2014 and the coming into force of the Free Trade Agreement in 2015. The ST&I By hosting meetings during the conference, Annual Canada-Korea Conference becomes

5TH ST&I FORUM: COLLABORATION FOR CLIMATE ACTION STRATEGIES TOWARD CARON NEUTRALITY

The 5th Canada-Korea Strategic ST&I Cooperation Forum was held as a flagship event of CKC 2021. This year's ST&I forum focused on the theme of "Climate Action Strategy Toward Carbon Neutrality in Canada and Korea" and served as a venue for discussion on the role of science and technology for mitigation of climate change in Canada and Korea, strategic direction of national research institutes towards sustainable development, and priority areas for international cooperation between two nations. In the opening keynotes, Mr. Emanuel Pinochet from the Ministry of Economy and Innovation of Quebec presented the provincial programs to reach carbon emission reduction targets in Quebec, Canada and President Philippe Tanguy of Polytechnic Montreal highlighted Canadian pathway toward decarbonisation based on deploying proven short-term solutions and accelerating the development of longer-term emerging technologies. Dr. In Hwan Lee, Director General Office of Policy at NST introduced the Korean green new deal policy and gave a review of current status of government-funded research institutes'(GRIs) R&D for climate change mitigation. The following discussion session was paneled by four presidents of Korean GRIs (KIST, KIER, KERI, and KRICT) and two professors from the University of Calgary and York University.







NST ST&I AMBASSADOR CONFERENCE

This session was organized in order to facilitate communications and collaboration between Korea Government Research Institutes (KGRIs) and corresponding AKCSE ambassadors. It also aimed to encourage and support the ambassadors to closely work with KGRIs to relate AKCSE members with KGRIs for collaborative research. The session was composed of summary of previous year's ambassador activities and announcement of new ambassadors for 2021-2022: NST, KIST, KISTI, KITECH, KICT, KIGAM, KIMM, KIER, KERI, KRICT, KIMS, KIAT, and IITP.







to Achieve Net-Zero Emissions by 2050

Technology and Innovation (ST&I). The bilateral relations have been enhanced by a Strategic Agreement that sets the framework for substantial cooperation has been in effect since 2017. an ideal platform for R&D collaboration between the two countries.



At this CKC 2021, for the first time, a joint session between Korean-Canada was organized by the NST with global common interest in the Carbon Neutrality. The latest research trends of the Carbon Neutrality in Korea and Canada were presented and there were discussion in how to initiate Korea-Canada research cooperation in this field. The session was divided into two parts. The first part was presentations from KIER, KIGAM, KIST, and KIMM about the Carbon Neutrality research trend in Korea. In the second part, three experts from the AKCSE presented the current status of Carbon Neutrality research in Canada.







With the participation of Ambassador of the Republic of Korea to Canada Dr. Chang Keung Ryong, 4 AI experts from AKCSE presented their research, followed by an open discussion among over 10 participants on AI research in Canada and Korea. Requests to promote the AI research collaboration between Korea and AKCSE members were delivered to Embassy and the remarks for future collaboration was made by Ambassador Chang.



SDG: CARON NEUTRALITY 1 & 2

AI ROUNDTABLE

R&D Brainstorming Sessions,

For providing a friendly platform, the CKC has hosted R&D Brainstorming Sessions, Special This is one of the CKC's intrinsic functions. In particular CKC 2021 was highly meaningful

KIER - NRC Battery Forum

This forum brought together key scientists from both research institutes to exchange ideas, advance knowledge and discuss future collaborative opportunities for battery technology between Korea and Canada. Dr. Boyun Jang introduced material technologies at KIER for secondary battery. Drs. Mike Fleischauer and Yaser Abu-Lebdeh (NRC) presented lithium-ion battery material characterization in harsh environments and next generation materials for solid-state batteries, respectively. This forum helped scientists from KIER and NRC realize the importance of international collaboration and plan strategies they can use to build research collaboration.



KITECH-AKCSE International Joint Research Proposal Presentation

This session was to present current research progress in advanced technology of artificial intelligence (AI) and its applications to industries in both Republic of Korea and Canada. KITECH (Korea Institute of Industrial Technology) introduces industrial case studies with AI applications in Machining and Agricultural areas. Furthermore, academic experts from the University of Calgary and the University of Alberta presented advanced AI utilization in a wide range of research-oriented fields in Canada. This opportunity facilitated both organizations in Korea and Canada to discuss future joint research in developing AI applications in various industries.



Forums, Workshops and Special Sessions

Sessions, Forums, and Workshops for participants and delegates from Korea and Canada. as a number of successful events hosted during the CKC 2021 shown below.

KIMM NCC - AKCSE International Joint Research Workshop

This session was to share the advanced manufacturing technologies between KIMM (Korea Institute of Machinery and Materials) and AKCSE members. Two AKCSE members and two KIMM researchers were invited to present their research via Zoom.



in this session.

KERI-AKCSE International Joint Research Program Session

This session was to present the current progress of the project with KERI, including the AI technologies in the manufacturing and electricity of North America. Prof. Jihyun Lee at the University of Calgary had a presentation on the trend of AI research in North America. After the presentation, Prof. Jihyun Lee and Prof. Hyock Ju Kwon discussed with KERI about collaborations in the industry 4.0 area.

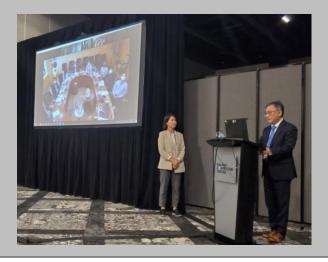
GEI-AKCSE International Joint Research Proposal Presentation

This session is to exchange researches for new energy technologies to realize a low-carbon society and discuss potential opportunity of joint research between GEI (Green Energy Institute) and AKSCE members. There were 4 presentations from Korean industries and 4 presentations from Canadian universities and research institution.



State-of-the-art technology in manufacturing such as virtual machine tools. metal 3D printing, robot machining were presented





EQUITY, DIVERSITY AND INCLUSION:

Embracing more fully ideas of inclusiveness and diversity among the AKCSE members, process related to equity, diversity and inclusion (EDI) focused objectives. women participate fully in Canada's technology and engineering workforce. every accounting for nearly 35%. Although we have seen a year-on-year increase in the number in the arena of S&T innovation. The efforts by the AKCSE to deal with the EDI concept to AKCSE co-organized programs with Korea's two leading organizations of women scientists

KOFWST (KOREA FEDERATION OF WOMEN'S SCIENCE & TECHNOLOGY ASSOCIATIONS)

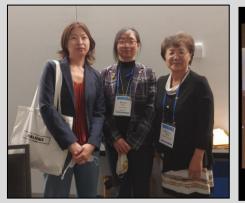
KOFWST is a leading federation of women science and technology associations composed of 63 member organizations in the field of science and technology. It has grown remarkably considering the fact that KOFWST was established in 2003 with only 4 member organizations. KOFWST has now become a strong organization leading Korea's science and technology field, not only for female scientists and engineers but also for its efforts to make science and technology applicable to people's everyday lives. With a title "How Women Rise: Growing into Success", many Korean KOFWST students and Canadian Korean YGs attended and discussed unconscious bias of different genders and generations.



This program is to support a better understanding of the impact of the current pandemic on mental distress in Canada and Korea, especially among women scientists and engineers in the various stages of their careers. It provided an opportunity for them to share their experiences on how they have been struggling and/or managing burnout during the pandemic period via pre-recorded vodcasts as well as panel discussion.



9



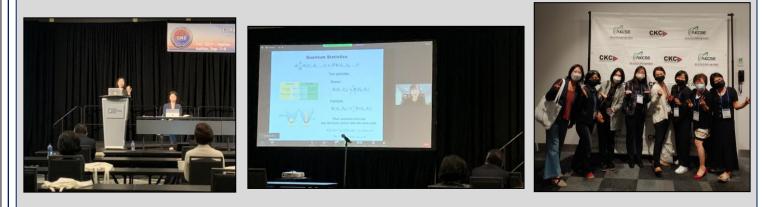


WOMAN IN SCIENCE AND ENGINEERING AT CKC 2021

we try to build respect into all its relationships through a dialogue and understanding To help achieve gender balance in the AKCSE, we seek to address various issues – ensuring As a result, the participation of woman scientists and engineers has been increasing of women working in science and technology (S&T) areas, they are still under-represented the organizational principle resulted in several events planned and organized at CKC2021. and engineers (i.e., KOFWST and KWSE).

KWSE (THE ASSOCIATION OF KOREA WOMAN SCIENTISTS & ENGINEERS)

KWSE was founded in 1993, as the first association of women scientists and engineers in Korea. KWSE aims to empower the scientific capacity as well as to uplift the status of women in academia, research institutes, and industry. Their mission and vision includes expansion of social infrastructure for women scientists and engineers, encouragement of R&D activities by facilitating information exchange, enhancement of social status and rights, and strengthening of the relationship among women scientists and engineers.



This session is a joint Consilience Technical Workshop between KWSE and AKCSE members to promote networking among Korean and Canadian women in science and technology, to disseminate their research works and to discover future international research collaboration projects. The development of core technologies in the era of the 4th industrial revolution, such as convergence technology using artificial intelligence and emerging researches in the environment/energy/quantum fields were discussed.



BRIDGING KOREAN GOVERNMENT FUNDING AGENCIES AND KOREAN-CANADIAN SCIENTISTS AND ENGINEERS

The AKCSE and its annual CKC offers unique and exclusive opportunities for both the Korean Government Funding Agency and Korean-Canadian Scientists and Engineers to promote and foster innovative STI research collaborations. In 2021, KIAT and KEIT, joined the CKC.

KIAT (Korea Institute for Advancement of Technology) K-TAG Forum

In this Forum, the KIAT Global R&D program was introduced to Canada K-TAG members, and ideas were shared to promote collaboration between two countries. A success story of a K-TAG member on the KIAT consulting project was also presented.



KIAT – AKCSE Global Cooperation Forum (NCC)

KIAT and AKCSE jointly held a Global Cooperation Forum to introduce the KIAT-led National Collaboration Center (NCC) project. The NCC project promotion plan, major achievements, and key promotion strategies were introduced to support small and medium-sized enterprises (SMEs) that need to search for overseas partners for joint R&D and project planning. The current NCC status and its operation was presented by some participating public institutes (KETI, ETRI, KATECH, KIMM, KITECH, and KRICT).

KEIT (Korea Evaluation Institute of Industrial Technology) Global Technology Strategy Forum

In this forum, KEIT introduced its R&D policy and Carbon Neutrality Strategy from MOTIE, Korea and recently launched Global R&D center to AKCSE members and showcased one success story of the KEIT global R&D projects currently being carried out between Canada and Korea. This forum promoted participation of Korean-Canadian scientists and engineers in the planning of Korea Government R&D projects for improving productivity and global cooperation.

11



TECHNICAL SESSION





There was a single-track technical session at the conference to promote research discussions and collaborations in the areas of 1) Biological Sciences and Health, 2) Information Communication Technology, 3) Physics, Chemistry Materials. and Nanotechnology and 4) Mechanical, Civil & Aerospace Engineering. Participants in this single-track technical session mingled to broaden their network among the people in the field of science and technology. Tremendous effort was spent by a technical chair to organize this single-track technical session of a high standard and quality. These events brought together many prominent speakers ultimately raising the bar in overall quality of the conference.

Research Showcase











The Research Showcase was held as a compelling venue to promote research activities of AKCSE members, to share ideas among different disciplines, and to foster new collaborations between Canada and Korea. There were 6 presentations by prominent scholars with broad range of topics from cutting edge technologies in AI, biotechnology, brain-computer interface, and nanotechnologies to breakthrough research in sciences and engineering. The cross disciplinary nature of this event provided a unique perspective to all participants sparking new ideas going beyond their own areas of research.

YOUNG GENERATION (YG) AND YOUNG PROFESSIONAL (YP)

The Young Generation (YG) and Young Professional (YP) Conference is an international professionals, and leaders across Canada and Korea and provide an important platform for the most important session of the CKC as these young scientists and engineers are the bright

YGP ICFBRFAKFR

The YGP Icebreaker had two main parts: the first part focused on delivering critical information to all of the YGP participants prior to the formal start to the conference. This information included the schedule for the conference, meals, as well as how to receive reimbursements. The second part then divided the participants & volunteers into predetermined groups, which the participants would stick with throughout the course of the conference. The groups were given fun daily challenges which would provide them with points throughout the course of the conference and Dalhousie University Mugs given to the group with most points. Leaders were also determined within the groups to manage the attendance of each group throughout the conference and deliver key announcements from the YGPN team, making it much easier to manage the participants throughout the conference. The icebreaker was rounded off with a fun trivia which tested the participants on the information provided as well as facts about Halifax.







YGP RESEARCH COMPETITION

The Research Competition was an opportunity for students both in undergraduate and graduate level studies all over Canada to gather and present on their research. The participants were divided into three different groups based on their research topics which were submitted prior to the start of the conference. Within each group were two judges who specialized on the given topic, who each judged individually based on the given rubric. The rubrics and comments were then connected and combined to choose 3 overall winners who were given monetary prizes.



CONFERENCE

conference held annually at the CKC, to bring together student researchers, young industry them to build network, share knowledge and develop leadership. The YG and YP Conference is future of the AKCSE.

TEDXYGP

The TEDxYGP was a free-style talk program in which presenters shared their past experiences,

life lessons, and ideas. This was a newly launched YGP program in CKC 2021 in order to expand the eligibility of the YGP participants joining CKC. There were four presenters each with 15 to 20 minutes of talk followed by a Q & A session. The topics of talks range from travels, education systems to personal finance and overcoming pandemic. There was one best presenter who got the majority of votes from the general audience and was given monetary honorarium.

YGP Industry Networking Workshop

The Industry Networking workshop was a new YGP program to connect young working professionals at the conference. Members began by introducing themselves and their current and previous work experiences, day to day tasks and interesting projects and assignments at their work. The discussion continued onto key topics around industry outlook, trends and challenges in respective industries, company culture, early career development, and navigating through the pandemic around diverse industries. Various perspectives were shared regarding work-life balance, managing burn-out, evaluating personal values, mentorship and training, as well as members' experiences as a young professional. There was great interest in the topic of transitioning between different industries, and the challenges faced during the transition due to tradition, misaligned experiences, references, connection, and transferable work skills. Members also discussed specific ideas to help shape AKCSE and YGP to be inclusive of more industry members going forward and find better balance for ratios between academia/research and industry. The specific ideas covered future conference workshop ideas, YGP-hosted events, mentorship opportunities for YP to YG members and bridging the gap between academia and industry through a collaborative discussion session.





YGP Human Bingo!

The Human Bingo! Session was a casual networking session for YGP and regular AKCSE members to mingle and get to know each other. This session was a new initiative to dedicate time and space within the YGP program for YGP and regular members to interact. Considering that there has yet to be an official program at CKC promoting such interaction, we felt that including such a networking session would help to improve the YGP-regular member connection and boost a sense of community within AKCSE as a whole. The networking session was gamified using a Human Bingo! sheet, which all participants were asked to fill out for an extra drink ticket at the final dinner for the first 10 people to submit their complete bingo sheets. We received very good feedback from members, both YGP and regular members. It was a nice break to the conference schedule that gave all participants a chance to move about and make new connections.







Alumni Networking Forum





During the four-day in-person/online forum, YGF/YPF Alumni had a chance to strengthen the ties among alumni and to open and establish strong professional relationships. In this event, alumni had an opportunity to participate in brainstorming meeting to foster stronger YGF/YPF alumni, "meet my mentor" program, TEDxYGP, YGP research competition, meeting with Ambassador of Korea, YGP Industry Professionals' networking session, Human bingo, off-site technical tour, and open sessions (plenary speech I&II, STI forum, Carbon Neutrality, technical session, research showcase). Especially, at the "Meet my mentor" session, mentees and mentors had an informal two-on-one consultation session for each topic about the questions of the mentees surveyed in advance. Through this program, alumni had an opportunity to participate in multiple social, scientific, and technical programs provided by CKC.



15



YGP Presidents' Workshop

The YGP Presidents' Workshop built professional and social bonds within and across Young Generation (YG) and Young Professional (YP) AKCSE chapter presidents. Attending presidents had an opportunity to share their leadership experiences, such as success and failure stories while running the chapter during the pandemic and personal/organizational achievements at local chapters. The workshop asked reflective and prospective questions in a series of small group discussions, guided by former and senior AKCSE members who have years of experience in the leading position. The questions helped attending presidents to create their own chapter identity, to set clear milestones and goals during and beyond their presidency, and to learn how to manage internal tensions and external conflicts. Presidents also developed strategies for team-building activities and brainstormed for future collaborative events with neighboring chapters that are geographically close. Presidents were encouraged to execute strategies, discussed and planned at the workshop, in the following year. They will be reporting updates, sharing experiences at the next CKC in 2022.

KOFST Young Generation Leader Program

In order to increase the global-mindedness and competency of young generation leaders, AKCSE and KOFST created an opportunity to connect Canadian Professionals who were involved in Canadian schools, academia, and national research institutes to selected participants from Korea. By introducing guest speakers and mentors who are living in Canada to the Korean participants, the program facilitated the sharing of Canadian lab and work environments to encourage future leaders to understand more about Canada. The program also helped to broaden the new leaders' knowledge on novel and emerging technologies as professionals from each field shared recent advances in Canadian research.









Award and Scholarship Ceremony

AKCSE scholarship committee and CKC award committee hold Award and Scholarship ceremony at each CKC. This year, the ceremony was held during the formal Banquet. This year, in particular, a number of awards and scholarships were given to Excellent Young Professionals and Young Generations.

- Commendation from the Minister of Science and ICT (MSIT), Korea
- KOFST Scientist of the Year Award
- KOFST Engineer of the Year Award
- AKCSE Best Service Award
- AKCSE Early Achievement Award
- AKCSE WiSE Award
- 2020-2021 AKCSE Best Young Professional Member Award
- 2020-2021 AKCSE Best Student Member Award
- 2020-2021 AKCSE Best Chapter Award
- AKCSE Best CKC Volunteer Award
- SK Scholarship in Life Sciences
- Goryeo Medical Foundation Scholarship in Life Sciences
- Green Cross Scholarship
- CS WIND Scholarship
- KOGAS Canada Scholarship
- Min Dong Yun Scholarship
- KONA Scholarship
- KCSSF Scholarship













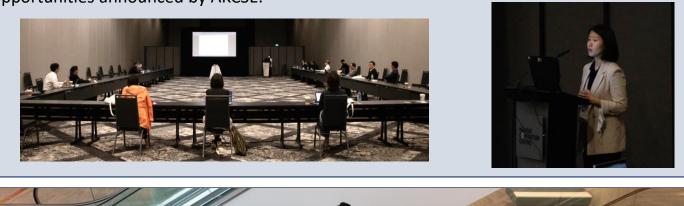






R&D Funding Information Session

Five AKCSE members provided an overview of creation of a strategic partnership between AKCSE and Hanyang University ERICA, three funding success stories from R&D committee members (IITP, KEIT, NSERC Alliance), and Mitacs funding opportunities. This session was designed to review these initiatives in detail, followed by interactive Q&A sessions. In this session, speakers and audience exchanged ideas on how to apply and how to develop a strong and successful application. The AKCSE members were encouraged to participate in funding opportunities announced by AKCSE.









See You All Again Next Year in Niagara Falls at the CKC 2022 **CKC2022** in Niagara Falls, July 4 – 8, 2022

Theme: to be announced



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19



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20

Canada-Korea Conference (CKC):

Since the 1st CKC was held in 2011 with around 120 participants, CKC now becomes as a unique conference for scientists and engineers





"Clean Technologies and Sustainable Future" June 16-19, Banff, Alberta, Canada



Grows steadily year after year.

the number of programs and participants has increased every year. from Canada and Korea for networking and exchange of knowledge and information.



2020 Canada-Korea Conference on Science and Technology AKCSE September 2-5 | Online and In-person Kananaskis, Ottawa, Toronto & Halifax, Canada | Sejong & Seoul, Korea





2021 Canada-Korea Conference on Science and Technology "New Opportunities in the New Normal" September 1-4, Online in Korea & In-person, Halifax, Nova Scotia



22

THANK YOU FOR YOUR SUPPORT & PARTICIPATION! Keit **Green Energy Institute** 한국산업기술평가관리원 KERI beyond leading technology кіат 힌국에니지기술언구원 KOREA INSTITUTE OF ENERGY RESEARCH KIGAM 한국지질자원연구원 Korea Institute of Geoscience and Mineral Resources **한국기계연구원** KOREA INSTITUTE OF MACHINERY & MATERIALS KITECH 한국생산기술연구원 National Research Council of Science & Technology 한국여성과학기술단체총연합회 Korea Federation of Women's Science & Technology As 대안여성과약기술인외 The Association of Korean Woman Scientists & Engineers 한국건설기술연구원 Korea Institute of Science and Technology





Date: July 4 (Mon) - 8 (Fri), 2022

Main Program (Tentative):

•Day 1 (7/4 Mon) •Day 2 (7/5, Tue) •Day 3 (7/6, Wed) •Day 4 (7/7, Thu) •Day 5 (7/8, Fri)

Registration, Welcome Reception **Opening Ceremony and Plenary Session I** ST&I Forum, Technical Sessions Plenary Session II, KGRI and Funding Agency Sessions Research Showcase I, II, Off-site Technical Program R&D Canada Follow-Up

July 4 (Mon) - 8 (Fri), 2022

E-mail: ckc@akcse.org, info@akcse.org Homepage: akcse.ca/CKC2022

Venue: Niagara Falls Marriott on the Falls, Niagara Falls, Ontario, Canada

