



ICEM 3RD VIRTUAL INTERNATIONAL UNDERGRADUATE RESEARCH CONFERENCE REPORT

Prepared by

Research and Ethics Committee (REC)

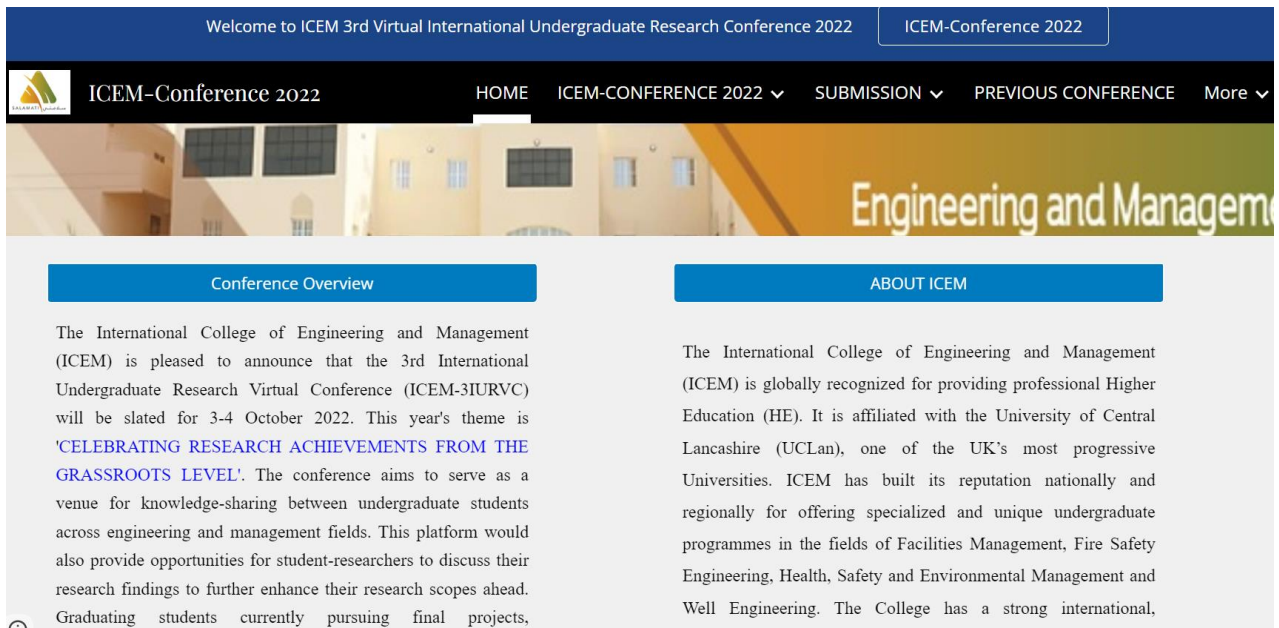
October 2022

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1. Conference Summary

ICEM 3rd Virtual International Undergraduate Research Conference took place on 3-4 October 2022. The conference was first advertised through the conference website and poster to students and researchers in different countries. Day 1 was allotted to keynote speakers who addressed the participants with their chosen topics (see program). The internationalization of this conference was possible due to the diversity of speakers from different parts of the world namely: the USA, Malaysia, Philippines, and Oman (see profile). The program started at 9:15 am with a reading from the Holy Qur'an. The opening remarks of Dr. Yingkui followed stressing ICEM's commitment to fostering research through collaboration and networking, which is echoing the Ministry of Higher Education, Research and Innovation (MOHERI). Accordingly, more than 100 participants joined online through the MS Teams platform coming from China, India, the Philippines, the USA, Malaysia, and Oman. Victor, a staff member from HSEM Department moderated the proceeding. The day 1 program ended at 2:30 PM. Day 2 commenced at 9:20 in the morning. There were 23 presenters of different nationalities presented on topics related to management, business management, engineering, health, and safety (see program). Each presenter was given 20 minutes to deliver and 10 minutes for Q&A. A group of staff members who came from ICEM was formed to moderate and act as panelists for each student-presenter. Despite some minor technical glitches, all the intended presenters were able to present their studies successfully. At the conclusion of the presentation, three presenters were identified to be deserving of the best presenter award. Day 2 ended at almost 3:00 PM and was attended by international students and staff alike. Attendees will be presented with a certificate of attendance for each day they participated. This year's conference was co-chaired by Dr. Don Anton and Dr. Javad under the tutelage of Dr. Girma as the chair of the Research and Ethics Committee. Further details on the conference are also discussed in this report.



a)



b)

Figure 1. ICEM conference website: a) homepage, b) paper submission page

ICEM 3rd Virtual International Undergraduate Research Conference

This year's theme is "CELEBRATING RESEARCH ACHIEVEMENTS FROM THE GRASSROOTS LEVEL". The conference aims to serve as a venue for knowledge-sharing between undergraduate students across engineering and management fields. This platform would also provide opportunities for student-researchers to discuss their research findings to further enhance their research scopes ahead. Graduating students are welcome to present their final projects, dissertations, field and case studies, or experiments relative but not limited to Health, Safety and Environmental Management (HSEM), Fire Safety Engineering, Fire Safety Management, Mechanical (Well) Engineering, Facilities Management, Business Management, Social Issues, Current Trends, Teaching and Learning.



3 - 4 October 2022 (Monday - Tuesday)



9:00 AM - 3:00 PM



Microsoft Teams

Keynote Speakers



Dr. Fernan P. Tupas is an Associate Professor of Northern Iloilo State University in the Philippines. His Academic background includes a PhD in Science Education and an International Research Fellow of the Japan Society for the Promotion of Science (JSPS). He presented and published numerous research papers on Science Pedagogy, Informal Science, Dance, and Culture to communicate science, Green Environment, Biodiversity, and Product Development and Reviewer for journals and publishers.



Dr Mohammed Bashir is a Professor and Head of the Department Of Environmental Engineering at Universiti Tunku Abdul Rahman, Jalan Universiti, Kampar Perak, Malaysia. He will speak on 'Emerging Pollutants in the Water Sources: Classification and Potential Risks'. According to Dr Bashir, the existence of contaminants such as pharmaceuticals, aromatic compounds, dyestuff, salts, and heavy metal ions in water streams poses a global environmental challenge. Most of them are highly harmful and mainly life-threatening for living organisms. Yet, conventional water treatment plants are not ready to deal with numerous ECs. Thus, there is a need to understand the critical health effect of emerging contaminants, sources, and potential treatments.



Dr. Sezer is an assistant professor of thermal and fluid sciences at Georgia Southern University in the department of Mechanical Engineering. Dr. Sezer received his B.Sc. degree in physics engineering (2005) and M. Sc. in defense technologies (Material Science) from Istanbul Technical University (2009), and he got his Ph.D. degree in mechanical and aerospace engineering from West Virginia University (2014). His research interest is in the field of computational fluid dynamics and its application in combustion, heat and mass transfer, fluid flow, wildland fires, renewable energy technologies, biomass gasification, hydrogen storage, and fire dynamics, and electrochemical energy storage and conversion devices (Fuel cells and Batteries). He has developed and refined 1D and 3D dynamic solvers for species transport, heat transfer, electrochemical reactions (adsorption and desorption), impedance, polarization, and electrical potential for solid oxide fuel cells (SOFCs) and sodium sulfur batteries (Na-S). He also has developed a novel model to predict the nickel coarsening in high-temperature SOFCs based on electro-migration. His current research is related to computational modeling of liquid atomization, the drag coefficient of complex geometries, combustion, fire dynamics, and heat transfer mechanisms of 3D direct laser metal sintering.



Dr. Babak Bahrani is a Fire Engineer in Arup based in San Francisco, California. He is specializing in performance-based design, wildfires, thermal response of materials, and fire modeling. His work ranges from a material response to elevated temperatures to building statistical models for wildfire spread mechanisms. Dr. Bahrani has over 5 years of experience applying fire models in support of scientific research and fire protection engineering design. Dr. Bahrani is an active member of the Society of Fire Protection Engineers, participating in various technical and non-technical committees such as Standard-Making Committee on Performance-Based Design, Fire Model Selection Task Group, and Wildland-Urban Interface (WUI) Working Group Initiative. He has taught undergraduate and graduate-level courses at the University of North Carolina at Charlotte and North Carolina A&T State University.



Dr. Reynaldo Gacho Segumpan is a Chartered Manager and Chartered Fellow of the Chartered Management Institute as well as a Fellow, Higher Education Academy, both in the United Kingdom. He was Associate Professor and Deputy Director of the University Teaching and Learning Center, MBA Coordinator, and Deputy Director of the Executive Development Center, Universiti Utara Malaysia (UUM), where he also taught Communication courses, Human Resource Management, Organizational Behavior, and Leadership and Organizational Effectiveness. Prior to his stint at UUM, he taught at West Visayas State University, Iloilo City, Philippines. Currently, he is the Head of the Department of Business Administration, College of Economics and Business Administration, University of Technology and Applied Sciences, Ibb, Oman. Dr. Segumpan was a Delegate to the 2018 Harvard Project for Asian and International Relations (Business and World Economy track) at Harvard University, USA, and was one of the Workshop Directors during the 2019 and 2022 Gulf Research Meeting at the University of Cambridge, United Kingdom.



Dr Tarek is currently an Associate Professor at the Department of Petroleum & Chemical Engineering, Sultan Qaboos University, Muscat, Oman. He holds more than 27 years of experience in oil & gas field development planning, production forecasting, performance review, reservoir management, and EOR studies and simulation. He is a specialist in oil and gas reservoir development planning, simulation, forecasting, monitoring, reserves estimation, and field problem mitigation issues. He is an expert in analysing and reviewing the performance of major fields for arresting the production decline and improving the recovery. He has advised and reviewed the Reservoir Management Plans for many oil and gas fields in domestic and international basins. He has also provided reservoir-engineering advice to the new field acquisition and prospect evaluation group. He possesses Professional skills and Extensive experience of more than 3 years in training centres and Visiting Lecturer at University.



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Figure 2. Poster used to advertise the conference via social media. (Source: Digital Marketing Department, ICEM, 2022).

ICEM 3rd Virtual International Undergraduate Research Conference

The International College of Engineering and Management (ICEM) is pleased to announce that the 3rd Virtual International Undergraduate Research Virtual Conference (ICEM-3IURVC) will be slated for 3-4 October 2022. This year's theme is 'Celebrating research achievements from the grassroots level'. This conference serves as a venue for knowledge-sharing between undergraduate students across engineering and management fields. This platform would also provide opportunities for student-researchers to discuss their research findings to further enhance their research scopes ahead. Graduating students are welcome to present their final projects, dissertations, field and case studies, or experiments relative but not limited to Health, Safety and Environmental Management (HSEM), Fire Safety Engineering, Fire Safety Management, Mechanical (Well) Engineering, Facilities Management, Business Management, Social Issues, Current Trends, Teaching, and Learning.

 3 - 4 October 2022 (Monday - Tuesday)

 9:00 AM - 3:00 PM

 Microsoft Teams



Dr. Fernan P. Tupas
Topic: Strengthening Science Curriculum Through a Marine Museum.



Dr. Tarek Al Arabi Omar Ganat
Topic: Methodological Research Writing Process.



Dr. Babak Bahrani
Topic: The role of performance-based approach in fire safety design.



Dr. Reynaldo Gacho Segumpan
Topic: Navigating Business and Management Research Trails; Theoretical and Practical Underpinnings.



Dr. Hayri Sezer
Topic: An overview of hydrogen storage safety.



Dr. Mohammed Bashir
Topic: Emerging Pollutants in the Water Sources: Classification and Potential Risks.



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2. Biography - Keynote Speakers

2.1. AP. Dr. Fernan P. Tupas

Dr. Fernan P. Tupas is an Associate Professor at Northern Iloilo State University in the Philippines. His Academic Background includes a PhD in Science Education and an International Research Fellow of the Japan Society for the Promotion of Science (JSPS). He presented and published numerous research papers on Science Pedagogy, Informal Science, Dance, and Culture to communicate science, Green Environment, Biodiversity, and Product Development and Reviewer for journals and publishers.

2.2. Professor Dr. Mohammed Bashir

Professor Dr. Mohammed Bashir is a Professor and Head of the Department of Environmental Engineering at Universiti Tunku Abdul Rahman, Jalan Universiti, Kampar Perak, Malaysia. He will speak on ‘Emerging Pollutants in the Water Sources: Classification and Potential Risks’. According to Dr Bashir, the existence of contaminants such as pharmaceuticals, aromatic compounds, dyestuff, salts, and heavy metal ions in water streams poses a global environmental challenge. Most of them are highly harmful and mainly life-threatening for living organisms. Yet, conventional water treatment plants are not ready to deal with numerous ECs. Thus, there is a need to understand the critical health effect of emerging contaminants, sources, and potential treatments.

2.3. Dr. Hayri Sezer

Dr. Sezer is an assistant professor of thermal and fluid sciences at Georgia Southern University in department of Mechanical Engineering. Dr. Sezer received his B.Sc. degree in physics engineering (2005) and M. Sc. in defence technologies (Material Science) from Istanbul Technical University (2009), and he got his Ph.D. degree in mechanical and aerospace engineering from West Virginia University (2014).

His research interest is in the field of computational fluid dynamics and its application in combustion, heat and mass transfer, fluid flow, wild land fires, renewable energy technologies, biomass gasification, hydrogen storage and fire dynamics and electrochemical energy storage and conversion devices (Fuel cells and Batteries). He has developed and refined 1D and 3D dynamic solvers for species transport, heat transfer, electrochemical reactions (adsorption and desorption), impedance, polarization and electrical potential for solid oxide fuel cells (SOFCs) and sodium sulphur batteries (Na-S). He also has developed a novel model to predict the nickel coarsening in high temperature SOFCs based on electro-migration. His current research is related to computational modeling of liquid atomization, drag coefficient of complex geometries, combustion, fire dynamics and heat transfer mechanisms of 3D direct laser metal sintering.

2.4. Dr. Babak Bahrani

Dr. Babak Bahrani is a Fire Engineer in Arup based in San Francisco, California. He is specializing in performance-based design, wildfires, thermal response of materials, and fire modeling. His work ranges from a material response to elevated temperatures to building statistical models for wildfire spread mechanisms. Dr. Bahrani has over 5 years of experience applying fire models in support of scientific research and fire protection engineering design.

Dr. Bahrani is an active member of the Society of Fire Protection Engineers, participating in various technical and non-technical committees such as *Standard-Making Committee on Performance-Based Design*, *Fire Model Selection Task Group*, and *Wildland-Urban Interface (WUI) Working Group Initiative*. He has taught undergraduate and graduate-level courses at the University of North Carolina at Charlotte and North Carolina A&T State University.

2.5. AP. Dr. Reynaldo Gacho Segumpan

Dr. Reynaldo Gacho Segumpan is a Chartered Manager and Chartered Fellow of the Chartered Management Institute as well as a Fellow, Higher Education Academy, both in the United Kingdom. He was Associate Professor and Deputy Director of the University Teaching and Learning Center, MBA Coordinator, and Deputy Director of the Executive Development Center, Universiti Utara Malaysia (UUM), where he also taught Communication courses, Human Resource Management, Organizational Behavior, and Leadership and Organizational Effectiveness. Prior to his stint at UUM, he taught at West Visayas State University, Iloilo City, Philippines. Currently, he is the Head of the Department of Business Administration, College of Economics and Business Administration, University of Technology and Applied Sciences, Ibri, Oman. Dr. Segumpan was a Delegate to the 2018 Harvard Project for Asian and International Relations (Business and World Economy track) at Harvard University, USA, and was one of the Workshop Directors during the 2019 and 2022 Gulf Research Meeting at the University of Cambridge, United Kingdom.

2.6. AP. Dr. Tarek Omar Ganat

Dr. Tarek is currently an Associate Professor at the Department of Petroleum & Chemical Engineering, Sultan Qaboos University, Muscat, Oman. He holds more than 27 years of experience in oil & gas field development planning, production forecasting, performance review, reservoir management and EOR studies and simulation. He is a specialist in oil and gas

reservoir development planning, simulation, forecasting, monitoring, reserves estimation, and field problem mitigation issues. He is an expert in analysing and reviewing the performance of major fields for arresting the production decline and improving the recovery. He has advised and reviewed the Reservoir Management Plans for many oil and gas fields in domestic and international basins. He has also provided reservoir-engineering advice to the new field acquisition and prospect evaluation group. He possesses Professional skills and Extensive experience of more than 3 years in training centres and Visiting Lecturer at University.

3. Conference Programme

Tables 1 and 2 show programmes for the first and second day of the conference held on 03 and 04 October 2022, respectively. Members of the Research and Ethics Committee (REC) were the panel members for the students’ presentation, as shown in Table 2.

Table 1. Programme for the first day of the conference.

Time	Programme
09:00-09:03	Participant Login
09:03-09:05	Recitation from the Holy Quran – Al Haitham Al Kalbani
09:05-09:15	Opening Remarks Dr. Yingkui Zhao , Dean
09:15-09:55	Keynote Address Title: <i>An overview of hydrogen storage safety</i> Keynote Speaker: Dr. Hayri Sezer Georgia Southern University, USA
10:00-10:40	Keynote Address Title: <i>The role of performance-based approach in fire safety design</i> Keynote Speaker: Dr. Babak Bahrani

	<p>Fire Engineer in Arup based in San Francisco, California, USA</p>
10:40-11:30	<p>Keynote Address</p> <p>Title: <i>Navigating Business and Management Research Trails; Theoretical and Practical Underpinnings</i></p> <p>Keynote Speaker:</p> <p>Dr. Reynaldo Gacho Segumpan</p> <p>Head of Department of Business Management, University of Technology & Applied Sciences, Ibri, Oman</p>
11:30-12:10	<p>Keynote Address</p> <p>Title: <i>Strengthening Science Curriculum Through a Marine Museum</i></p> <p>Keynote Speaker:</p> <p>Dr. Fernan P. Tupas Associate Professor of Northern Iloilo State University, Philippines.</p>
12:10-12:50	<p>Keynote Address</p> <p>Title: <i>Emerging Pollutants in the Water Sources: Classification and Potential Risks</i></p> <p>Keynote Speaker:</p> <p>Dr. Mohammed Bashir</p> <p>Professor and Head of the Department of Environmental Engineering Department, Universiti Tunku Abdul Rahman, Malaysia</p>
12:50-1:30	<p>Keynote Address</p> <p>Title: <i>Methodological Research Writing Process.</i></p> <p>Keynote Speaker:</p> <p>Dr. Tarek Al Arabi Omar Ganat Associate Professor at Sultan Qaboos University, Muscat, Oman</p>

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Table 2. Programme for the second day of the conference on 04 October 2022.

No.	Name	Title	Time	Panel Member 1 (Moderator)	Panel Member 2
1	Nassar said Alshidhani	The role of sponsorship in the recovery of event industry in Oman from negative impacts of COVID19 Pandemic.	09:10-09:25	Asif Zamir	Dr. Don
2	Saba Sultan Alkawali	MODIFIED NANOCCLAY BASED WBM FOR SHALE STABILITY AT HIGH TEMPERATURE	09:25-09:40		Dr. Khan
3	Almuhannad Hamed Alomairi	The role of silica nano-fluid as a plugging agent for enhanced oil recovery – Experimental Approach	09:40-09:55		Dr. Girma
4	Maram Khalfan Albulushi	Investigating the effect of spacing on merging behavior of two circular acetone pool fires	09:55-10:10	Dr. Sreejaya KV	Dr. Khan
5	Lew Xian Gang	Impact of Inflation on the Automotive Industry within the Scope of Engineering	10:10-10:25		Alex
6	Mohamed Hamid Mohamed Al Khatiry	Simulating the effect of nanoparticle to the transportation of cuttings	10:25-10:40		Azza
7	Kugenraj A/L Shankar	The review of impact of inflation on the oil and gas industry within the	10:40-10:55	Mrs. Azza	Victor

		scope of engineering			
8	Wafaa rashid salim al-Mahrooqi	Design and Investigation of Thermal Method Using Nichrome Wire for Heavy Crude Oil Production	10:55-11:10		Dr. Girma
9	Ayat Saif Aziz Al-Hadi	Numerical Study of the Geometrical and Thermal Characteristics of EVF.	11:10-11:25		Alex
10	Shatha Moamar Mohsin Al Sheikhani	Safety Practices and Causes of Accidents in Construction Projects in Oman	11:25-11:40	Dr. Khan	Victor
11	Ali Salim Ali AL Shuhaimi	Analyze factors in pipe burst and losses using Numerical & simulation tool kit	11:40-11:55		Dr. Don
12	Sameh Mohamed ALBulushi	Investigation of Nano Technology Enhancement on Cemet Slurry	11:55-12:10		Dr. Sreejaya
Break					
13	Nadra Saif alharthy	A study on the performance improvement of solar water heater - experimental approach	12:10-12:25	Dr. Javad	Alex
14	Qasim Mohammed Rashid Al Makhmari	Efficiency of smoke control systems in undergraduate parking	12:25-12:40		Dr. Raju
15	Rawan Nasser Al Qassabi	Use of colored flashing lights to assist it's influence on exit choice	12:40-12:55		Dr. Don
16	Saba Sultan Almawali	CEMENT DUST COLLECTER WHILE MIXING IN THE RIG	12:55-13:10		Dr. Khan

17	Salima Sulaiman Mohammed Al- battashi	Study the influence of fire growth parameter in effectiveness of smoke management systems in atrium	13:10-13:25	Dr. Raju	Azza
18	Dion	Impact of Inflation on Labour Wages Within the Scope of Engineering.	13:25-13:40		Dr. Sreejaya
19	Abdullah Salim Al- mamari	Covid 19 health impacts on nurses at Royal Oman Police hospital	13:40-13:55		Anoop
20	Timur Izmailov	Impact of Inflation on Commodities Within the Scope of Engineering	13:55-14:10		Azza
21	Lim Khai Hen	The Review on The Impact of Inflation on The Construction Cost Within the Scope of Engineering	14:10-14:25	Alex	Dr. Girma
22	Al Moastasim Alkalbani	Influence of Zinc oxide nanoparticles on the rheological properties of drilling fluids	14:25-14:40		Dr. Sreejaya
23	Elham Salim Saif Al Habsi	Posture analysis of Mud technician involved in Mud mixing operations at oil rig site	14:40-15:10		Dr. Don

4. Opening Remarks by Dr. Yingkui Zhao, Dean

The event's highlight started with a keynote remark from the college's Dean, Dr Yingkui Zhao (Figure 4). In his keynote remarks, the dean highlighted some areas where the college has shown notable strides in scholarly research over the years. He also stressed that the college had introduced a research culture that yielded positive outcomes and noted that the college seeks to ensure that such culture continues. The dean further alluded that the conference will serve as an avenue for students and staff intending to collaborate with local and international

researchers. Finally, he urged the audience to make the most of the conference and utilise every opportunity it avails to them. He then applauded the keynote speakers for availing their time and effort towards participating in the conference.



Figure 4. Dr. Yingkui Zhao, Dean (top left).

5. Keynote Address at ICEM Conference

The conference podium was handed over to Dr Barak Bahrani, the first keynote speaker and a fire engineer in ARUP based in San Francisco, USA (Figure 5). Dr Bahrani's speech emphasised the role played by the performance-based approach in fire safety design. The prelude to his speech centred on the history, process and application of performance-based design (PBD). Dr Bahrani noted that PBD is an engineering approach to assess the performance of a component or an entire fire safety design based on set goals and objectives, which have advantages in contrast to the prescriptive-based approach. However, he noted that although they are commendable when designing buildings, they also come with drawbacks.

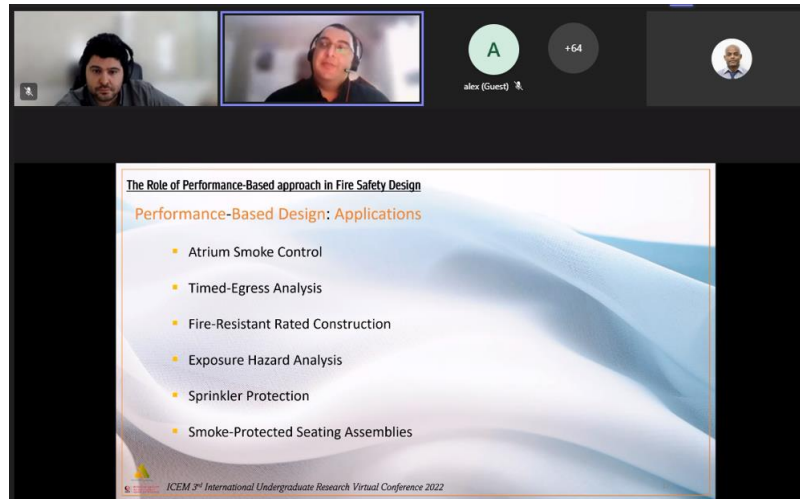


Figure 5. Presentation by Dr Barak Bahrani

The next keynote speaker was Dr. Reynaldo Segumpan from the University of technology and applied science (UTAS) in Ibri, Oman (Figure 6). Dr Segumpan, the HOD of the Department of Business Administration in the institution, UTAS, gave a keynote session highlighting the need to transverse theoretical and practical research applications in business management and social sciences. His session explained why publishing research findings are essential and the skills needed to publish. He further clarified some idiosyncracies faced by researchers who find themselves publishing in predatory journals.

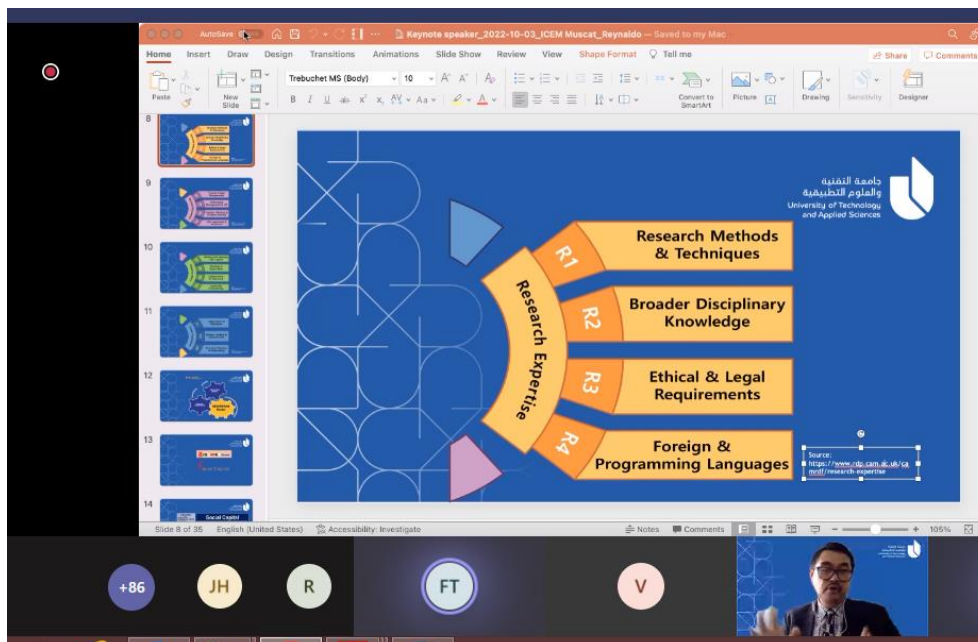


Figure 6. Presentation by Dr. Reynaldo Segumpan

The third keynote speaker to deliver his keynote speech was Professor Mohammed Bashir from Universiti Tunku Abdul Rahman Malaysia (Figure 7). Prof Mohammed’s remarks dwelled on the Classification and harmful effects of Emerging contaminants in water sources. His speech expounded that Emerging contaminants have harmful effects on human health and are mainly unregulated; as such conventional waste disposal techniques are not up to speed with dealing with the risk they pose as their content and scope in terms of measurements are not yet known. He urged that more research is needed to address the problems they pose and proffer solutions to address the problem faced with Emerging contaminants; some of the solutions recommended by Prof Mohammed include the utilization of couple systems and the development of creative technologies, membrane filtering and chemical oxidation.

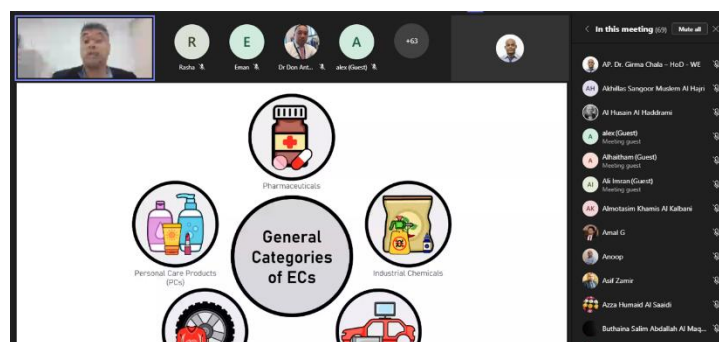


Figure 7. Presentation by Professor Mohammed Bashir

The next keynote speaker was Dr Fernan Tupas from Northern Iloilo State University in the Philippines. Dr Fernans keynote speech stressed strengthening the science curriculum through a marine museum. He stated that to protect ocean resources from the impact climate change poses on Marine life, it becomes paramount to sort for environmentally friendly, which are economically viable in addressing the current issues. In this regard, marine museums will serve as a panacea to ameliorate the threat posed by pollution and climate change in waterways which endangers marine species.

The last keynote address was from Dr Tarek Al Arabi Omar Ganat, an associate professor from Sultan Qaboos University (Figure 8). His speech dwelled on the role of scientific methods in conducting research. He gave a succinct explanation of the steps required to conduct research and the methods required and presented the research philosophies required. He then clarified the nuances between quantitative and qualitative research and justified why and when they can be applied to scholarly epistemologies.

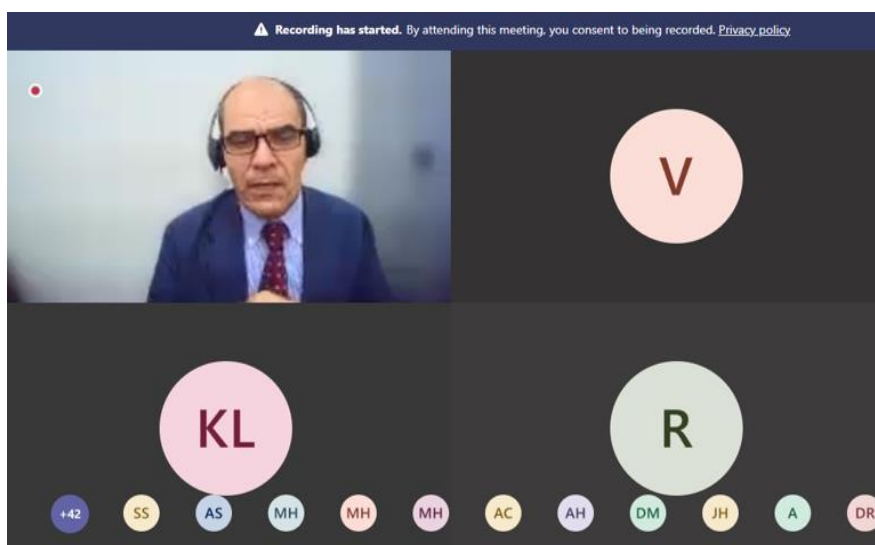


Figure 8. Presentation by AP. Dr. Prof. Tarek Al Arabi Omar Ganat

6. Selection of Best Presenter from Students

Following the students' presentation on 04 October 2022, the evaluation team collected the marking sheets from all the panel members, which were then consolidated for finalizing the results. Undergraduate students from Oman and other countries presented their work at the research conference. The marking scheme and presentation schedule were communicated to the panel members in advance through the REC chair. The evaluation team verified the attendance of the participants in the online research conference; moreover, the sessions were fully recorded for the documentation purpose. The scoring was calculated based on the subject knowledge, presentation skills and responses to the questions asked. The evaluation team consisting of members of different departments met on 10 October 2022 at 10:00 am to finalize the results. The total score was calculated, and details are provided in Table 3, in which the students are shortlisted based on their presentation.

Table 3. Shortlisted Candidates.

S/n	Presenter	Title	Time
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1	Kugenraj A/L Shankar	The review of impact of inflation on the oil and gas industry within the scope of engineering	10:10-10:20
2	Shatha Moamar Mohsin Al Sheikhani	Safety Practices and Causes of Accidents in Construction Projects in Oman	10:40-10:50
3	Dion	Impact of Inflation on Labour Wages Within the Scope of Engineering	12:10-12:20

Based on Table 3 1st winner: Shatha Moamar Mohsin Al Sheikhani, presented topic on Safety Practices and Causes of Accidents in Construction Projects in Oman secured overall score of 32.

2nd winner: Mr. Dion Presented topic on Impact of Inflation on Labour Wages within the Scope of engineering with overall score of 31.

3rd winner: Mr. Kugenraj A/L Shankar presented topic on the review of impact of inflation on the oil and gas industry within the scope of engineering secured overall mark of 30.

The following selected winners will receive certificate of recognition for best performance in research Conference.

The average marks from the subject knowledge, presentation skills and response to the questions indicated that Shatha Moamar Mohsin Al Sheikhani has scored the highest and was awarded as the best presenter at the ICEM third virtual international undergraduate research conference. Figure 9 shows the certificate for the best presenter award.



Figure 9. Certificate for Best Presenter Award. (Source: Digital Marketing Department, ICEM, 2022).

7. Feedback from Attendees

To enhance conference quality for the next academic year, a survey or feedback link was sent to attendees and staff. Various questions believed to be relevant to enhance the conference experience were asked for the analysis. Feedback was received during the first day of the keynote address with the motive of knowledge sharing on the relevant topics within the interest of students and staff. It was also received during students' presentation on 04 October 2022.

Feedback link as Google form was shared with all the audiences and participants of REC-22. It helps us to motivate to continue the good practice and also give the direction of improvement for future tasks. Overall, feedback is very positive which can be seen from the histogram in all the categories. Satisfaction of overall questions was around 80.4%, which shows the online conference enhanced research understanding of the participants and attendees. Guest lecturers deliver their lectures on time, there is an appropriate time for audience to raise their valuable questions. Students presentation from different department shows that they are much interest

to show their skills to achieve more in the research area. They gave the appropriate answers while giving their presentations. The feedback rating is shown in Figure 10.

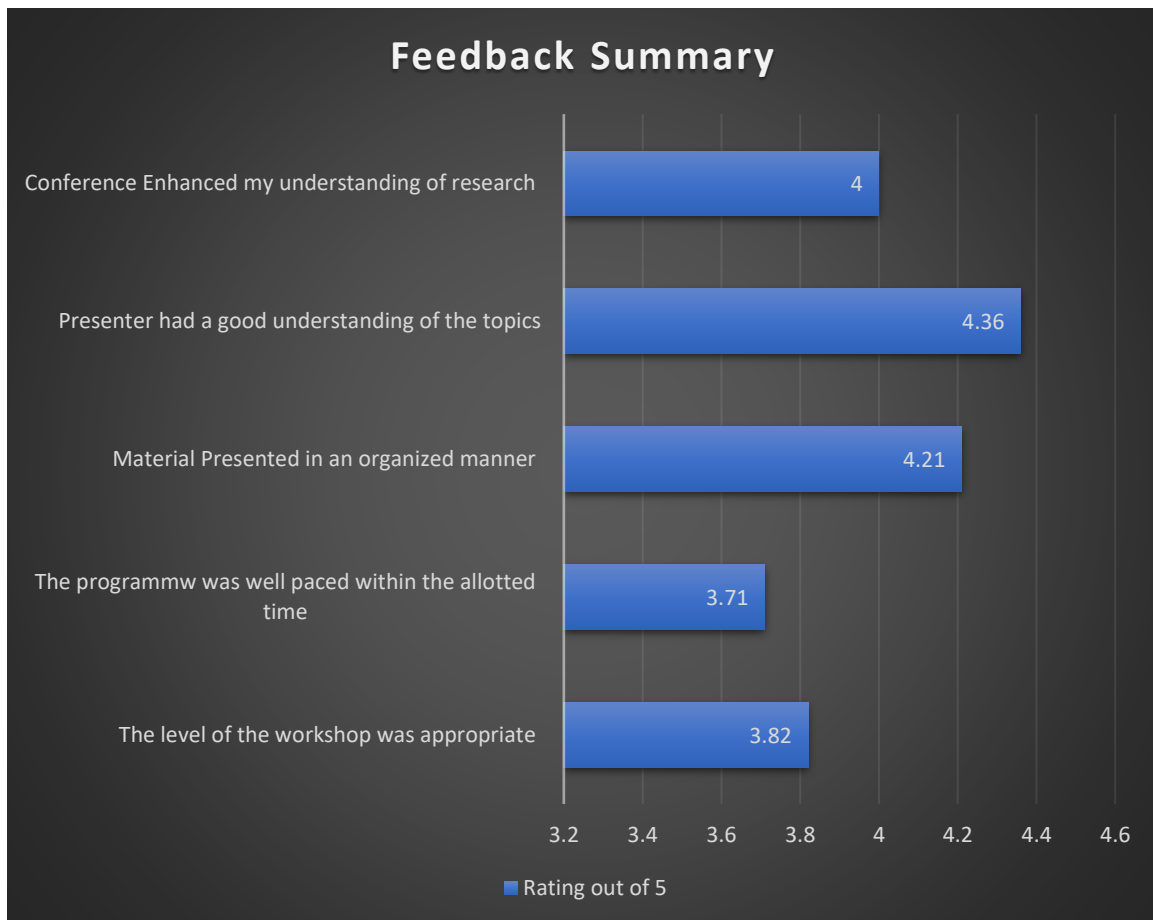


Figure 10. Feedback satisfaction.