

PAPER • OPEN ACCESS

First International Conference for Pure and Applied Sciences (ISCPS), Faculty of Science, University of Kufa, Najaf, Iraq

To cite this article: Ahmed J. Obaid *et al* 2020 *J. Phys.: Conf. Ser.* **1660** 011001

View the [article online](#) for updates and enhancements.

You may also like

- [Determination of long-lived gamma emitters in some vegetarian products in Al-Najaf governorate using NaI\(Tl\)](#)
Ali Saeed jassim, Adnan Hassoon Oraibi, Ali Abid Abojassim et al.
- [A comparison between weighted arithmetic and Canadian methods for a drinking water quality index at selected locations in shatt al-kufa](#)
F M Kizar
- [Demand forecasting model analysis for Al-kufa road network](#)
Zainab S Al-Duhaidahawi, Hamid A Al-Jameel and Raid R Al-Muhanna



ECS
The
Electrochemical
Society
Advancing solid state &
electrochemical science & technology

DISCOVER
how sustainability
intersects with
electrochemistry & solid
state science research

First International Conference for Pure and Applied Sciences (ISCPS), Faculty of Science, University of Kufa, Najaf, Iraq

Ahmed J. Obaid¹, Mohamed Al-Rafaei², Haider Salaeh Hasson³, Luay Abdual Abas Hussain⁴, Bassma H. Hamad⁵, Hiba A. Ahmed⁶

¹ Faculty of Computer Science and Mathematics, University of Kufa, Najaf, Iraq.

^{2,3} Faculty of Sciences, University of Kufa, Najaf, Iraq.

⁴ Chair of Iraqi International Creativity and Innovation Forum, Iraq.

⁵ Alkarkh University of Science, Iraq

⁶ Dept of Mathematics, Baghdad University, Iraq

E-Mails: ahmedj.aljanaby@uokufa.edu.iq , Sci.conference@uokufa.edu.iq

The ISCPS Proceedings volume contains the written versions of the contributions presented during the First International Conference for Pure and Applied Sciences (ISCPS), it had been held at Faculty of Science, University of Kufa, Najaf, Iraq (<http://sci.uokufa.edu.iq/>) , at 13 and 14 July 2020, ISCPS also hosted a session from 3rd Creativity and Innovation Forum which it's had been held at University of Babylon. The Conference provided a forum for discussion and sharing between lecturers, researchers, academics, practitioners, communities, and Information technology specialists, from universities, research institutes, corporations, industries, the government, and the general public in terms of Pure and Applied Sciences in the aspect of Biology, Chemistry, Geology, Physics, and Mathematics. The conference has been a great opportunity for participants coming from UK, Turkey, Egypt, Lebanon, Qatar, Algeria, Syria, Iran, India, Pakistan, Malaysia, Palestine, Senegal, Morocco, and Many other Countries to present and discuss topics in their respective research areas.

ISCPS-20 conference included 5 plenary sessions and invited speakers, and also oral and poster presentations to allow as many as possible attendances to present their scientific results on the different fields. The manuscripts which have presented were published in the IOP Conference Series: Journal of Physics under the peer-reviewed process. We love to express our gratitude for all of the participants, keynote speakers, and guests of honor, for their effective contribution in our conference and these proceedings. We also, acknowledge University of Kufa, University of Babylon, Jawhrat Dijla Company for their hospitality and sponsoring the conference. Furthermore, would like to thank SICC Center for their supports. Our ongoing thankfulness is presented for our Chairs, Guest editors and Speakers.

Venue of the Conference

The conference has been organized Faculty of Science, University of Kufa, Iraq, The Faculty of Sciences is a scientific and educational foundation that aims through its scientific departments at



Content from this work may be used under the terms of the [Creative Commons Attribution 3.0 licence](https://creativecommons.org/licenses/by/3.0/). Any further distribution of this work must maintain attribution to the author(s) and the title of the work, journal citation and DOI.

preparing a generation of students armed with knowledge and looking forward to building their country according to the new scientific developments. The Faculty endeavors towards making use of them in an appropriate cultural means as well as building good and new scientific establishments for the sake of developing the present through scientific research. For more information about the faculty please visit our website as follow: <http://sci.uokufa.edu.iq/en>.

The reason(s) why ISCPS conducted virtually:

Due Covid-19 Pandemic Situation and the incredible increases of cases in Iraq and pending all life activities, the conference organizers decided to achieve this event Virtually to keep the life of participants, but we find that the number of participants are bigger than expected number due many peoples are able to attend conference online sessions due the friendly uses of Virtual Software without spending money or travel very far to attend the conference. However, we feel this conference achieved successfully even Covid-19 there but the scientist always seeking for the reputed event. The organizing committee have achieved these tasks and all sessions organizing in Faculty of Science after they attend physically to use the Faculty of Science infrastructure to achieve this task. Where topic Feed as follow: <http://sci.uokufa.edu.iq/en/archives/10264> , The faculty of Science at the University of Kufa holds its first international scientific conference on pure sciences via virtual world. Under the auspices of the President of the University of Kufa, Prof. Dr. Yasser Lafta Hassoun, and under the supervision of Dr. Muhammad Al-Rafei, Dean of the faculty of Science, the faculty of Science at the University of Kufa held its first international scientific conference of pure science Via the free conference call.

The conference included discussing research within six axes, which are the life sciences, the chemistry axis, the physics axis, the environment axis, the laboratory investigation axis, the Earth Sciences (geological) axis, with the participation of more than 100 researchers from Iraq and a number of Arab and foreign countries. The conference started with a speech by the President of the University of Kufa, Prof. Dr. Yasser Lafta Hassoun, in which he stressed the importance of holding such conferences in the light of the Corona pandemic, which requires researchers to find solid scientific solutions to combat this epidemic, while the Dean of the Faculty of Sciences, Dr. Mohamed Al-Rafaei stressed in his speech that the current critical and exceptional challenges and circumstances It was a motive for the faculty of Science to establish this international conference and contribute to the exchange of knowledge scientific experiences between researchers from different countries of the world.

The inaugural session witnessed the delivery of two research papers, the first by Dr. Adel Youssef Al-Handal from Sweden on how to write a research proposal for a global financial grant, and the second by Dr. Nabil Mohy Abdel-Hamid from Egypt on nano and vimto technology and their applications in medicine and pharmacy, after which scientific sessions began with various axes to discuss the submitted research that focused on the use of modern technologies to solve the health and environmental problems facing society, and to improve the scientific reality.

Technology, technical difficulties and drawbacks of conference virtually.

ISCPS Conference Consider the Free Conference Call as the Main Software for delivering the Session discussions and Meeting information to all participants in Iraq and Other countries. The main advantages of this Technology is to reduce the time and space when someone would like to attend any scientific event and also broken the limitations for the peoples and authors who would like to attend this event from far away countries, in which the meeting gathering together all peoples in same room and provide an optimal way to sharing knowledge among them.

The main technical difficulties of Virtual Meetings can be summarizing as follow:

Virtual Technique that use to achieve this task, Many software used, everyone own his own facilities and services but we feel that the internet connections where many authors are from countries all

affected by Covid-19 and the internet connection became slow, where many users are forced to exit and rejoin many times through the session.

Some software to achieve high quality required certain number of users, to keep the bandwidth little good, however not all interested peoples can attend meeting.

Drawbacks of conference virtually, we do not feel the virtual conference have much drawbacks than physical conferences, in which many peoples can avoid many fees payment for travels and hosting, registration fees, as well as flight tickets in which virtual conferences gives free offer for all the above issues. Another thing is, some famous figures and professors can easily join and attend without consider their fees in which they can attend and speak for hours when they sitting at home.

The main drawback we feel that if some authors would like to visit the conference venue for direct discussion and made good collaboration, so virtual meeting can also achieve this task easily, at the current time where all world suffer from Covid-19 pandemic.



Conference Chairs

- Prof. Dr. Yasser Lafta Hassoun, President of University of Kufa, Iraq.
- Prof. Dr. Mohamed Al-Rafaei, Dean of Faculty of Science, university of Kufa., Iraq.
- Prof. Dr. Hussain Jasim Mohammed, Scientific Asst. of Dean, Faculty of Science.
- Asst. Prof. Dr. Saleh Hasson Abood, Administrative Asst. of dean, Faculty of Science.
- Dr. Ahmed J. Obaid, Main Chair of Publication in ISCPS conference.

Editorial Committee

- Prof. Dr. Mohamed Al-Rafaei, Dean of Faculty of Science, university of Kufa., Iraq.
- Prof. Dr. Salah Albermany, Faculty if Computer Science and Mathematics, University of Kufa.
- Dr. Ahmed J. Obaid, Faculty if Computer Science and Mathematics, University of Kufa.
- Dr. Shubham Sharma, LSIC India.
- Bassma H. Hamad, Alkarkh University of Science, Iraq

- Dr. Hiba A. Ahmed, Dept of Mathematics, Baghdad University, Iraq.
- Dr. Ghusoon Idan Arb Naser, Sumaer University, Baghdad, Iraq.

Organizing Committee (Faculty of Science, University of Kufa)

- Prof. Dr. Hussain Jasim Mohammed.
- Prof. Dr. Mehdy Hussain Muhail.
- Prof. Dr. Abdul Hady Abbas Hadi.
- Prof. Dr. Haider Saleh Jafat.
- Prof. Dr. Mahmood Abdul Hasan.
- Prof. Dr. Mayadah Farhan Derwish.
- Prof. Dr. Alaa Aldeen Subhi
- Prof. Dr. Ahmed Abdul Jabbar Jalaob.
- Prof. Dr. Ali Abd Abo Jasim.
- Prof. Dr. Basim Abdul Hasan.
- Asst. Prof. Dr. Saleh Hasson Abood.
- Asst. Prof. Dr. Azhar Abdul Wahab.
- Asst. Prof. Dr. Hazim Aziz Naje
- Asst. Prof. Dr. Kareem Jabar Sabah
- Asst. Prof. Dr. Mustafah Adbul Kadhem Hussain
- Asst. Prof. Dr. Muhaiman Mohammed Majeed
- Asst. Prof. Dr. Alaa Shakir Hantoosh
- Dr. Esraa Noor Abd Kadhem
- Dr. Talib Adbul Redha Abdul Wahed

Scientific Committee (Faculty of Science, University of Kufa)

- Prof. Dr. Arshad Noory Ghany
- Prof. Dr. Hussain Kadhum Abdul Hussain
- Prof. Dr. Hawraa Abdul Al-Ameer Ali
- Prof. Dr. Kareem Talib Khashan
- Prof. Dr. Mousa Neamaa Mezher
- Prof. Dr. Sami Waheed Radhi
- Prof. Dr. Adel Habeeb Omran
- Prof. Dr. Abdul Zahraa Mousa Obaid
- Prof. Dr. Adnan Faleh Hasan
- Prof. Dr. Abdul Kadhum Jaithom Marzook
- Prof. Dr. Saleem Kudhair Abbas
- Asst. Prof. Dr. Mohammed Jawad Saleh
- Asst. Prof. Dr. Muhsen Kadhum Hassan
- Asst. Prof. Dr. Nuhad Habeeb Mutlak
- Asst. Prof. Dr. Mohammed Zhugair Khadeeb

Invited Speakers

- Prof. Dr Nabil Mohie Abdel-Hamid, Dean of Pharmacy College, Kafrelsheikh University, Egypt. Prof. Nabil Professor of Biochemistry (Cancer Biologist, Principal Instructor and interested in Hepatocellular Carcinoma Research, His Speak Session Topic was about: Nano and femtot retreat and their applications in medicine and pharmacology, and he was talking about 1 hour. Home Page URL: <http://nabilmohie.academia.edu/NabilMohieAbdelHamid>.
- Prof. Dr. Adil Yousif Al-Handal, University of Gothenburg | GU · Department of Biological & Environmental Sciences, Sweden. Prof Adil, worked in Department of Biological & Environmental Sciencesnull, Sweden. He was talking about 1 hour about " Writing successful research proposal for international funding". His google scholar URL : https://www.researchgate.net/profile/Adil_Al-Handal/4. His home page URL: https://optics.marine.usf.edu/people/aal-handal_bio.html .

Organizing Institutions

- Faculty of Science, University of Kufa, Iraq, in the main Campus of University of Kufa.
- Statistical and Informatics Consultation Center (SICC), Faculty of Computer Science and Mathematics, University of Kufa, Iraq.
- University of Kufa, President office, the President of University of Kufa, Iraq.



Sponsors

- Ali Albahar Company, Iraq.
- Imam Ali Holey
- Wahaj AIDNA Company



Special Thanks to:

- **DIJLAH GOLDON JEWEL Company, Iraq**
for their Supports and Sponsorship.





The banner for the 1st International Conference on Pure Science (ISCPS-2020) features the following elements:

- Logo:** ISCPS 2020 with a stylized atom symbol.
- Title (Arabic):** المؤتمر الدولي العلمي الاول للعلوم الصرفة
- Title (English):** THE FIRST INTERNATIONAL SCIENTIFIC CONFERENCE OF PURE SCIENCE
- Venue:** جامعة الكوفة - كلية العلوم (University of Kufa - Faculty of Science)
- Dates:** 13-14 تموز 2020 / July 13-14, 2020
- Format:** 2020 Virtual Conference
- Location:** Faculty of Science, University of Kufa, Najaf, Iraq. Contact: +9647819166679 / +9647806611904. Website: www.iscps.info, Email: info@iscps.info.
- Publishers:** IOP Publishing
- Organizers:** Logos for the Faculty of Science, University of Kufa, and the Scientific Committee (SCC).



