

CONFERENCE SUMMARY REPORT



Koya University, Koya (Kurdistan Region-Iraq)
23rd-24th April, 2018

1st International Conference on Pure & Applied Science

Pure & Applied Science:
Promoting Peer Reviewed Research
23rd-24th April, 2018





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Koya University, Koya (Kurdistan Region-Iraq)

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CONFERENCE SUMMARY REPORT



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1.INTRODUCTION

The 1st International Conference on Pure & Applied Science ICPAS 2018 was held on 23rd-24th April, 2018 at the Presidency Building of Koya University, Koya, Kurdistan Region of Iraq, <http://koyauniversity.org/node/155>. The conference was supported by Ministry of High Education and Scientific Research in Erbil, Kurdistan Region-Iraq. The conference was the first that organized by Faculty of Science and Health at Koya University.

With respect to registrations, 107 submitted papers registered from different Iraq and Kurdistan Region Universities and only 43 papers were accepted to be presented in the conference after peer review procedure by professional staff of Faculty of Science and Health <http://conferences.koyauniversity.org/index.php/pas/2018/about/organizingTeam>, in different fields. Attendees of 130 academics from Mosul, Kirkuk, Anbar and Baghdad Universities were registered. Over 35 delegates attended the conference from General Consulate of Japan, Ministries of High Education and Scientific Research, Health, Agriculture and Natural Resources. More than 212 staff member of Koya University registered and attended the conference.



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The conference opening was attended by the President of Salahaddin University, Assistant Professor Dr. Ahmad Dizayi, the Counselor of Japan in Erbil, Moriyasu Katsumi, Head of World Universities Union, Dr. Orhan Oglu, the director of safety and health in the Ministry of High Education and Scientific Research, Dr. Brwa Muhamad, the director of safety and health in Salahaddin University, Dr. Media Noori, the director in the Ministry of Agriculture, Dr. Khalis Hamad, the director in the Ministry of Natural Resources, Fatah Tahman, lab director in the Ministry of Health, Muzafar Salih, the general manager in the Directorate of Health of Koya, Dr. Kamaran Abbas, the Dean of Technical Institute of Koya, Dr. Muhamad Khidr and the Dean of Haibat Sultan Institute, Hemn Bayez. The opening ceremony had a special welcoming word from the chair, Assistant Professor Dr. Wali Mahmood, the President of Koya University and the co-chair, Assistant Professor Dr. Taha Jalal, the Dean of Faculty of Science and Health.



Figure 1- Attendees standing in the Conference Auditorium during Iraq and Kurdistan anthem

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Figure 2- (From Left) Moriyasu Katsumi, Assistant Professor Dr. Wali Mahmood, Dr. Orhan Oglu and Assistant Professor Dr. Ahmad Dizayi

With a focus on pure and applied research, the theme of the ICPAS 2018 was science applications in Biology, Microbiology, Chemistry, Physics and Mathematics Research. The conference addressed a variety of topics relevant to the main theme, including specific researches on microbiology, biotechnology, nanomaterials, renewable energy, nuclear structure, environmental green chemistry and applied mathematics.

2. CONFERENCE HIGHLIGHTS

After 14 years of establishing Faculty of Science and Health in Koya University since 2003, and with many issues raised during preparations of ICPAS conference, regarding international airports of Kurdistan Region-Iraq, the conference was an outstanding one in terms of organizing and talks selected by the keynote speakers.

The ICPAS also addressed problem relevance and challenges in an artificial intelligence and applications as trend research by a Professor of Mathematics and Computation in University of Buckingham, UK, Dr. Sabah Abbas.

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Figure 3- Professor Dr. Sabah Abbas during his talk which is titled “Artificial Intelligence-Trends, Challenge and Implications”

ICPAS 2018 has promoted to direct the 1st year undergraduate students to pick up problems and do their research, as this theme was selected by Assistant Professor Dr. Francis Burns from University of South Carolina, U.S. as one of the main talks in the conference.



Figure 4- Assistant Professor Dr. Francis Burns during his talk which is titled “First-year research projects: solving problems and improving student performance”

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The aim of talk by Professor Dr. Jamal Rasul from University of Kurdistan Hewler was to provide an assessment of the state of education and higher education in Kurdistan in comparison to their counterparts in the developed countries highlighting the important and necessary steps that need to be taken to make sure that higher education will not be trapped in as a pharaoh and can take its natural and expected role in Kurdistan Nation Building. In this, he intended to highlight adjustments and initiation of a set of selfless new rules and regulations that need to be adopted by Kurdistan's parliament, the government, the Ministry of Higher Education and turn higher education into the fairy with their expected role in Kurdistan's society and nation building as expected.



Figure 5- Professor Dr. Jamal Rasul during his talk which is titled “Higher Education in Kurdistan: A Pharaoh or a Fairy for Nation Building”

Professor Dr. Salah Isamel from Koya University focused in his talk on the dosimetry of the cellular frequency fields and their recent trends. He explained how to achieve the dosimetry by computing the specific absorption rate in human tissues.

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Figure 6- (From Left) Professor Dr. Salah Ismael, Professor Dr. Sabah Abbas and Assistant Professor Dr. Taha Jalal

The schedule of the ICPAS 2018 was quite busy, with an extensive program, <http://conferences.koyauniversity.org/index.php/pas/2018/schedConf/program>, and the activities started after the formal opening of conference and welcome speeches with the 11 min of a documentary film on Faculty of Science and Health. On first day of conference, 23rd there were two sessions of Biology and Chemistry. The second day of conference, 24th included five sessions of Mathematics and Physics with Biology as well. Among the participants there were two undergraduate students from Medical Microbiology Department who presented their work under the support of their supervisor; Assistant Professor Dr. Ayad H. Hasan.

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**2018 International Conference on Pure and Applied Science
ICPAS 2018, 23rd - 24th April, 2018
Faculty of Science and Health, Koya University
Kurdistan Region, Iraq**



Conference Programme

Day One

Monday, April 23, Conference Auditorium (AUD), Presidency Building.

08:30-09:30	Registration
09:30-09:35	"Welcoming Word" by Assist. Prof. Dr. Wali M. Hamad , ICPAS 2018 Conference Honorary Chair (President of Koya University)
09:35-09:40	Opening Word by Assist. Prof. Dr. Taha J. Omar , ICPAS 2018 Conference Co-Chair (Dean of the Faculty of Science and Health, Koya University)
09:40-09:45	Documentary film
09:45-10:45	Keynote/Plenary address: "Artificial Intelligence-Trends, Challenge and Implications", by Prof. Dr. Sabah Jassim , Buckingham University, UK
10:45-11:15	Keynote/Plenary address: "First-Year Research Projects: Solving Problems and Improving Student Performance", by Assist. Prof. Dr. Francis Burnns , University of South Carolina, U.S.

11:15-11:35 Break (Exhibition of Art Paintings with Violin Music)

11:35-12:05	Keynote/Plenary address: "3-Year (2015-2018) Assessment of the Scientific Research Performance in Kurdistan Universities", by Prof. Dr. Salah I. Yahya , National University Ranking, Ministry of Higher Education, Kurdistan Region-Iraq
12:05-13:05	Keynote/Plenary address: "Higher Education in Kurdistan: A Pharaoh or a Fairy for Nation Building", by Prof. Dr. Jamal R. Ameen , University of Kurdistan Hewler, Kurdistan Region-Iraq

13:35-15:05 Lunch (Corner Café, University Campus)



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Session One: A - Biology, 15:05-16:25, Conference Auditorium (AUD). Session Chair: Assist. Prof. Dr. Ayad H. Hasan.

15:05-15:25	“Cultivation and Detection of Viable but Nonculturable (VBNC) Fungi in Soil by Using Yoghurt Whey Infusion Agar (YWIA)”, Bahrouz M. A. Al-jaff , Wijdan A. Ali Al Mohamdi, and Sajid S. Saleem AL- Saeedi
15:25-15:45	“Effect of Types Cultures Media on Isolation of Fungi from Indoor Swimming Pools”, Asia A. M. Saadullah , Berivan A. Abdullah
15:45-16:05	“Genotyping of Echinococcus Granulosus (Hydatid cyst) Isolated from Domestic Animals in Kurdistan-Iraq”, Abdullah A. Hama , Wijdan M. S. Mero, and Jaladet M. S. Jubrael
16:05-16:25	“Lipids and Glucose in Cerebrospinal Fluid of Children with Acute Lymphoblastic Leukemia and Hydrocephalus Disease”, Lelas F. Bdaiwi , Luay A. Alhelaly, and Sayran S. Saleh

Session One: B - Chemistry, 15:05-16:25, LT1001 Hall. Session Chair: Dr. Bnar J. Ahmad.

15:05-15:25	“Koya River Water Quality Assessment with a Focus on Physiochemical Properties and Heavy Metals”, Rawaz R. Hamadamin , Mamnoon Q. Saleh, and Nali J. Hamad
15:25-15:45	“Quantitative Quenching of Fluorescein Based Method for Determination of Valsartan in Some Pharmaceutical Product”, Tara F. Tahir, Aryan F. Qader , and Musher I. Salih
15:45-16:05	“Study of Enzymatic Changes in Placentae of Toxoplasmosis Infected Pregnant Women”, Saba Z. Al-abachi , and Layla A. Mustafa
16:05-16:25	“Fe ₃ O ₄ MNPs Adsorbent for Pre-Concentration and Determination of Cd(II) Ions in Drinking Water Using Flame Atomic Absorption Spectrometry”, Layth I. Abd Ali , and Nisar S. Omar

16:25-16:45 Break (Exhibition of Art Paintings with Violin Music)

Session Two: A - Chemistry, 16:45-18:05, Conference Auditorium (AUD). Session Chair: Dr. Tara F. Tahir.

16:45-17:05	“Synthesis and Characterization of Some New Bis- (Dihydropyrimidinones-5-Carboxamide) by Using Ultrasonic Irradiation”, Faiq H. S. Hussain , and Haval O. Abdulla
17:05-17:25	“Synthesis of a Model Trehalose Ester (Cord Factor), and Study Its Antigenic Properties”, Salam G. Taher
17:25-17:45	“Synthesis and Spectroscopic Characterization of a New Series of Thiazolidin-4-one Compounds from Heterocyclic Schiff Bases”, Bana S. Abdulrahman, and Hashim J. Azeez
17:45-18:05	“Applications, Compositions and Performances of Lithium Ion Batteries in Electric Vehicles”, Rawand S. Abdullah , Mazin A. Othman, and Rostam R. Braim



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Session Two: B - Biology, 16:45-18:05, LT1001 Hall, Session Chair: Prof. Dr. Ismail S. Ibrahim.

16:45-17:05	“Correlation Between Helicobacter Pylori Infection in Pregnant Women with Pregnancy Related Disorders in Erbil City”, Suha H. Ahmed , and Saad A. Mohammed
17:05-17:25	“Some Molecular Characterization of β -Thalassemia Major In Koya City”, Kochar Kh. Saleh , and Ismail S. Ibrahim
17:25-17:45	“Isolation and Characterization of Bacteria Associated with UTI in Diabetics and Non-Diabetics Women”, Ayad H. Hasan, Gullan O. Rahman , Gulala R. Khidher, and Aqeel I. Ghani
17:45-18:05	“Effect of Physical Exercise on Levels of Sex Hormones in Smoker Students”, Samra S. Fernands , and Noor S. Al-Tae

18:05	Dinner (Miral Hotel, Dukan)
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Day Two
Tuesday, April 24, Presidency Building

**Session Three: A - Mathematics and Physics, 09:00-10:20, Conference Auditorium (AUD).
Session Chair: Prof. Dr. Mohammad SH. Hasso**

09:00-09:20	“The Optimum Operation Conditions for Electrostatic Precipitator (ESP) in Particulate Emitter Industries”, Saddon T. Ahmad , and Jahfer M. Smail
09:20-09:40	“Effect of Gas Pressure and Gas Flow Rate on the Magnetic Properties of Sputtered Ni and Ni ₈₁ Fe ₁₉ Films”, Musaab S. Sultan
09:40-10:00	“Multiobjective Stochastic Programing: The Case of Production of Cakes”, Abdulqader O. Hamadameen
10:00-10:20	“MESDA: An Approach Towards Investigating DNA Codon Frequency Parameters in Distributed Database”, Miran H. Baban, and Shad A. Mohammed

Session Three: B - Biology, 09:00-10:00, LT1001 Hall, Session Chair: Dr. Sarmad N. Mageed

09:00-09:20	“In Vitro Evaluation of Antioxidant Activates for Parts of Rhubarb (Rheum Ribes) and Syrian Mesquite (Prosopis farcta)”, Ismael H. Mohammed
09:20-09:40	“Effect of Salinity on Some Morphological and Physiological Characters of Oat (Avena Sativa L.) Plants”, Arroul M. Anwar , Sargul A. Khudhur, and Younis H. Mustafa
09:40-10:00	“Phosphodiesterase 5 Inhibitor Relaxes Isolated Rat Trachea in Endothelin-1 Induced Contraction”, Ismail M. Maulood



10:20-10:40	Break (Exhibition of Art Paintings with Flute and Oud Music)
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Session Four, A, "Biolog", 10:40-12:00, Conference Auditorium (AUD), Session Chair: Dr. Hikmat M. Masyab.

10:40-11:00	"Antifungal Activity of Aqueous Atracts of Punica Granatum and Quercus Infectoria Penicillium spp. and Cladosporium spp. Mycelia Growth", Taha J. Omar
11:00-11:20	"Psychosocial Factors in Relation to Musculoskeletal Disorders Among Nursing Professionals in Raparin Administration", Karwan M. Khudhir , Kochar Kh. Saleh, Saman R. Adulah, and Kochr A. Mahmood
11:20-11:40	"Heavy Metal Concentrations in Parasitized Cows and Sheep with Echinococcus as Environmental Bioindicators", Sarmad N. Mageed , and Maamun Q. Saleh
11:40-12:00	"Some Cardiac Marker Levels and Cytokines in Diabetic Patients", Shahen S. Hussen, and Esmael S. Kakey

Session Four, B, "Biology", 10:40-12:20, LT1001 Hall, Session Chair: Assist. Prof. Dr. Taha J. Omar.

10:40-11:00	"Effects of Light Spectrum on the Growth, Photosynthetic Pigments and some Stomata Characteristics of Broad Bean (Vicia faba L.)", Ikbal M. Al-Barzinji , Hawre O. Rahman, and Warin S. Abdulrahman
11:00-11:20	"Evaluation of Oxidative Stress Status in Aged Human in Relation to some Diseases", Amez A. Ismael , and Ismail S. Kakey
11:20-11:40	"Antibiotic Susceptibility of Salmonella spp. Isolated from Chicken Faeces", Ayad H. Hasan, Kozhin M. Amin , Banaz M.Najmaden, Bayan K. Jalal
11:40-12:00	"Activity of Iron Oxide Nanoparticles–Chitosan Composite on Bacterial Biofilm Formation", Hanan T. Subhi
12:00-12:20	"Vitamin D Level Study Within the Population in Sulaymaniah City- IRAQ", Rabar M. Abdulrahman , Sakar A. Abdullah, Kosar A. Omer

12:20-13:50	Lunch (Corner Coffee, University Campus)
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Session Five: Mathematics and Physics, 13:50-15:10, Conference Auditorium (AUD), Session Chair: Assist. Prof. Dr. Saddam T. Ahmad.

13:50-14:10	“Magnetic State of Template Released Isolated Nickel Nanowires”, Musaab S. Sultan
14:10-14:30	“Weak Idempotent Elements”, Rebin M. Hassan , and Parween A. Hummadi
14:30-14:50	“Mechanical Characterizations of Boron Oxide Doped Y- TZP Electrolyte for HT-SOFC”, Abeer F. Al-Attar , Saad B. Farid, Mohamad J. Eshraghi, and Fadhil A. Hashim
14:50-15:10	“Existence and Uniqueness Theorems in an Infinitesimal Micromonad of an Initial Standard Point and Legendre Equation”, Mardan A. Pirdawood , Ibrahim O. Hamad
15:10	Awarding and Closing Ceremony of ICPAS 2018 Conference

Scientist and artists have their meeting point in the method and from this; the idea of the art paintings exhibition was stemmed at ICPAS 2018 Conference. The exhibition was held by the artist Shyaw Sartip with a music atmosphere of violinist Dawan Abdullah on the first day of conference and flutist, Pola Ismael with oud player, Darbaz Jalal on the second day.



Figure 7- Assistant Professor Dr. Haidar Lashkry in the Art Paintings Exhibition



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Figure 8- Violinist Dawan Abdullah in the Art Paintings Exhibition



Figure 9- (From Left, First Row) Violinist Dawan Abdullah, flutist, Pola Ismael, oud player, Darbaz Jalal, artist, Shyaw Satrip. (From Left, Second Row) Dr. Bnar Jawdat and Dr. Tara Fuad in the Art Paintings Exhibition

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Lunch was served in Corner Cafe at the University campus, while dinner was in Miral Hotel in Dukan. In the ICPAS dinner, the venue was fully packed, and it was a good opportunity for a social interaction and networking among participants.



Figure 10- (From Left) Dr. Tara Fuad, Dr. Bnar Jawdat and Dr. Hikmat Mustafa in Miral Hotel



Figure 11- (From Left) Dr. Tara Fuad, Assistan Professor Dr. Ayad Hazim and Dr. Bnar Jawdat in Miral Hotel

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3. COMMENTS FROM PARTICIPANTS:

Here are some comments from participants who responded to a post-conference e-mail regarding the following questions:

a- Please note what you liked best about the conference.

b- Please suggest improvements for the next conference.

What did I like?

- Overall organization: plenary session, lunch, presentations
- Visual and musical arts - very innovative and pleasant
- networking with other scientists and students

What needed improvement?

- Different location for breaks. Some participants stayed in the hall after breaks and talked during presentations. They created background noise.
- The visual and musical arts need a better location, too. Maybe involve them in some way? Maybe make a special event for them? Could you hold an art exposition during the conference (collaboration with the Faculty of Fine Arts?)
- Poster session would be a good way to increase the number of participants without increasing the length of the conference.
- A system of notifying speakers of their time would be good (such as hold up yellow card for 5 minutes left, red card for two minutes, and then stand)
- Needs to have better advertising. For example, Nature has an online calendar: <https://www.nature.com/natureevents/science/calendar>.

The conference could be improved, but it was a very good conference. I hope that the University will organize another ICPAS.

28/4/2018 Dr.Francis

“We really enjoyed with all the colleagues from Koya University at the conference”

29/4/2018 Dr. Eman

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The objective of the conference was something highly needed and non-classical. This sensitive and necessary issue should be highly supported by the MoHSR but you could manage rescuing it through the panel. As such, all went well and well done.

Regarding the second point, this is in general a learning process and I guess the conference committee can set its policies from the start and make sure that possibly about half of the presenters touch on the objectives of the conference and leave the remaining half for sharing multidisciplinary and specialised topics.

In all you and the team did very well.

28/4/2018 Dr. Jamal

“I just like to say thank you for your wonderful conference”

28/4/2018 Dr. Lelas

- 1- The conference was very professional and the presentations were really with a good scientific level.
2. I couldn't see any engagement from the IRO with the conference. The Japanese consul was sitting for 15 min and nobody came and say to him; Hello!!!
3. I am suggesting for announcing ICPAS2019 in June.

29/4/2018 Dr. Salah

4. RECOMMENDATIONS OF CONFERENCE:

Aims of the conference were in general:

1. Raising scientific research standards
2. Finding methods for applying the research that is carried out, in a way to benefit the society.

These are very wide goals and to achieve them some recommendations, based on observations of the research papers presented, and the evaluation panel discussion, are presented below.



The recommendation committee of the ICPAS 2018 has discussed a blueprint for what we need to change in the near future. Thus, we have planned short-term and long-term recommendations:

a- Short-term recommendations:

- 1- Assessing the level of the researches at Koya University to direct some of the scientific researches towards tackling the region issues and needs. This can be achieved via having a round table discussion of the problems associated within the region.
- 2- Starting training courses for teaching staff, researchers, and administration staff in communication skills, management, researches, academic ethics, critical thinking and publications.
- 3- Encouraging a multidisciplinary collaboration between the departments of different Faculties inside and outside Koya University to address multi-level scientific issues.
- 4- Establishing an annual self-assessment review (SAR) to review plans and goals of each Faculty at Koya University.
- 5- Formation a committee from different sectors (Universities, Ministries, Educational organization) for the curricula development.

b- Long term recommendations:

- 1- Discussing the possibility of reviewing the current rules of academic promotion in communication with MHE.
- 2- For research directions to be indicated on any level that can be done on Ministry, Universities and Faculties levels. Scientific and public committees can be established to address, discuss and point out the problems in Kurdistan Region that Science can solve.
- 3- Proposing projects in collaboration with the public and private sectors, and securing funds for the scientific researches.

Recommendation Committee of ICPAS 2018



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Figure 12- Recommendation Committee (From Left) Assistant Professor Dr. Saddun Taha, Dr. Tara Fuad, Professor Dr. Sabah Abbas, Dr. Shelan Talabani, Assistan Professor Dr. Wali Mahmood, Professor Dr. Jamal Rasul, Assistant Professor Dr. Taha Jalal and Dr. Bnar Jawdat



Figure 13- (From Left) Dr. Muhamad Faeq, Assistant Professor Dr. Ayad Hazim, Assistant Professor Dr. Taha Jalal and Dr. Hikmat Mustafa

Finally, the success of **ICPAS2018** in Koya University was due to engagement of the local organizing committee, speakers, and delegates that attended the event. The next Conference will be held in Koya University in 2020.

Organizing committee of ICPAS 2018