



# Program of International Workshop On Physics Applications

*In collaboration with*

## **1<sup>st</sup> Annual International Conference on Information and Sciences**

**(AICIS 2018)**

Fallujah, Anbar-Iraq  
20-21 November, 2018

***Organized by***

*University of Fallujah, Iraq*

***Conference Chair***

*Prof. Dr. Mohammed Affan Alhamdany*

## **Workshop Publications**

All Accepted papers will be published by IOP Publishing **Journal of Physics: Conference Series**.





## Conference Program Agenda (General Map)- 1<sup>st</sup> Day

Venue: Baghdad, Babylon Hotel Date: Nov., Tuesday 20, 2018				
8:00-9:30	Registration			
9:30-10:40 Gilgamesh Hall	<ul style="list-style-type: none"> <li>- Opening Ceremony</li> <li>- Art Activities</li> </ul>			
10:40-11:25	<b>Keynote Speech I</b> (Gilgamesh Hall) <i>Prof. Badrul H. Khan (PhD) - USA</i>			
11:30-12:10	<b>Keynote Speech II</b> (Gilgamesh Hall) <i>Prof. Roumiana Kountcheva (PhD) – Bulgaria</i>			
12:10-1:00	Coffee Break, Art Gallery			
	Parallel Sessions ( <b>Scientific Activities Included</b> )			
<b>Hall Names</b>	Gilgamesh Hall	Al Furat Hall	Enlil Hall	Baghdad Hall
<b>Time Duration</b> 01:00-04:00	AICIS accepted Papers	Physics Work- shop Accepted Papers	Biotechnology Workshop accepted papers I	Biotechnology Workshop accepted papers II

## 2nd Day- Wednesday, Nov. 21-2018

Venue: University of Fallujah Main Campus Floor Date: November, Wednesday, 21, 2018				
8:00-9:30	Registration			
9:30-10:05	- Opening Ceremony, Fallujah Mayoralty Main Building			
10:05-10:40 Central Hall	<b>Keynote Speech I</b> <i>Prof. Dhiya Al-Jumaily (PhD) - UK</i>			
10:40-11:10	<b>Keynote Speech II</b> <i>Prof. Rafid Al-Kadhar (PhD) - UK</i>			
11:10-11:40	<b>Keynote Speech III</b> <i>Prof. Muthanna Shanshal (PhD) - Iraq</i>			
11:40-12:40	Coffee Break ,Art Gallery			
12:40-200	Exhibits			
02:00 -04:00	Parallel Sessions ( <b>Scientific Activities</b> )			
<b>Place</b>	El-Kendi Hall	El-Razi Hall	Ibn El-Baytar Hall	Ibn Hayan Hall
<b>UoF Medical School Building</b>	Bio. Work- shop I	Bio. Workshop II	Physics Workshop	AICIS'18

### Third Day

Venue: Baghdad Date: November, Thursday, 22, 2018 Tour	
10:00-1:00	Site visit to Iraqi National Museum
01:00-3:00	Site visit to Al-Hikma House with Break
	A Lecture on Iraq Sociocultural Life

#### Shor Description about Venue Tour:

**Iraqi National Museum:** is a museum located in Baghdad, Iraq. Also known as the Iraq Museum, it contains precious relics from the Mesopotamian, Babylonian and Persian civilization. The collections of the National Museum of Iraq include art and artifacts from ancient Sumerian, Babylonian, Akkadian and Assyrian civilizations. The museum also has galleries devoted to collections of both pre-Islamic and Islamic Arabian art and artifacts. Of its many noteworthy collections, the Nimrud gold collection—which features gold jewelry and figures of precious stone that date to the 9th century and the collection of stone carvings and cuneiform tablets from Uruk are exceptional.

**Al-Hikma House:** Bayt Al-Hikma is an intellectual and scientific establishment with financial and administrative independence. It deals with researches and studies. Bayt Al-Hikma was re-established in 1995 under the law (No.11 in 1995), to reviving the role of "Abbasian bayt al- hikma" or as it known at that time "wisdom closet" which was founded in Baghdad (754-775)A.C. in the era of Abbasian caliphate (Abo Jaffer Al-Mansour). The house draws on several areas including political and strategy studies, religion, historical, philosophy, Law and economics, Sociology and linguistics.



## Conference Program Agenda (Detailed Map)- 1<sup>st</sup> Day

**Venue:** Baghdad, Babylon International Hotel

**Tuesday, Nov.20, 2018**

**Hall(s):** Gilgamesh, Al-Furat, Enlil, Ishtar Halls

Time	Registration
09:30-10:40	<ul style="list-style-type: none"> <li>- <b>Opening Ceremony</b> <ul style="list-style-type: none"> <li>- Performance of the Iraqi National Anthem</li> <li>- A Piece of Holy Quran Recital</li> <li>- UoF President Remarks</li> <li>- Iraqi Minister of HESR Remarks</li> </ul> </li> <li>- <b>ART Activities</b></li> </ul>
10:40-11:30	<b>Keynote Speech I</b>
	<p><b>Speech Title: Iraqi Virtual University (IVU)</b></p> <p><b>Prof. Badrul H. Khan (PhD) – USA</b>            Founder of modern e-Learning            Virginia International University, USA  <a href="mailto:badrulkhan2003@yahoo.com">badrulkhan2003@yahoo.com</a></p>
11:30-12:10	<b>Keynote Speech II</b>
	<p><b>Speech Title: Adaptive processing of correlated sequences of medical images</b></p> <p><b>Prof. Roumiana Kountcheva (PhD) – Bulgaria</b>            TK Engineering of Sofia, Bulgaria  <a href="mailto:kountcheva_r@yahoo.com">kountcheva_r@yahoo.com</a></p>
12:10-01:00	<b>ART Gallery, Coffee Break</b>

## International Physics Workshop Sessional Discussion (Presentation)

### Session 1 (Baghdad- Al Furat Hall) Workshop Code: **SSP1**

Time Duration  01:00-02:30	Physics Applications: Nuclear Session Chairs: Prof. Raad AbedAl-Kareem and Prof. Ali A. Latif		
	Paper ID	Title	Time
	SSP11	Investigation of isospin conservation effects on pre-equilibrium reactions for some nuclei	01:00-01:15
	SSP12	Self- Consistent Random Phase Approximation Calculation with Skyrme Type Interaction for Some Closed Shell Nuclei	01:15-01:30
	SSP13	Measurement the Concentrations of Radon and Thoron and Their Progeny in the Air Samples of Al-Haswaa City in Babylon Province	01:30-01:45
	SSP14	Vibration Properties of $Z_nS$ nanostructure Wurtzoids : ADFT Study	01:45-02:00
	SSP15	Structural Properties of Ytria Stabilized Zirconia With Different Nano Alumina-Magnesia Spinel Additions	02:00-02:15
	SSP16	Effect of Cold Atmospheric Pressure Plasma on DNA Integrity in Patients with Asthenospermia	02:15-02:30

### Session 2 (Baghdad- Al Furat Hall) Workshop Code: **SSP2**

Time Duration  02:30-04:00	Physics Applications: Material and Medical Physics Session Chairs: Prof. Muhammed Taqi and Assist. Prof. Shehab Ahmed		
	Paper ID	Title	Time
	SSP21	Enhancement the sensitivity of $CdS$ Nano Structure by Adding of Rear Earth Materials	02:30-02:45
	SSP22	Investigation of Laser Grooving Process on Copper Tin Sulfite Thin Films	02:45-03:00
	SSP23	Classification of Brain Lesion using K- Nearest Neighbor Technique and Texture Analysis	03:00-03:15
	SSP24	Study the Antifungal Activity of $Z_nS:M_n$ Nanoparticles Against Some Isolated Pathogenic Fungi	03:15-03:30
	SSP25	The Effect of cold microwave plasma on Hormones and Living tissues of mouse females Using Digital Image Processing	03:30-03:45
	SSP26	Notch filters Design with Supreme Performance	03:45-04:00

Total Papers: 12

## Conference Program Agenda (Detailed Map) - 2<sup>nd</sup> Day

**Venue:** University of Fallujah Main Campus Floor

**Date:** Nov. 21, 2018

**Hall(s):** Ibn Sina, El-Kendi, El-Razi, Ibn El-Baytar, Ibn El-Hyan Halls

Time	Registration
09:30-10:05	<p>- <b>Opening Ceremony</b></p> <ul style="list-style-type: none"> <li>- Performance of the Iraqi National Anthem</li> <li>- A Piece of Holy Quran Recital</li> <li>- UoF President Remarks</li> <li>- Anbar Governor Remarks (or his Representative)</li> </ul>
10:05-10:40	<p><b>Keynote Speech I</b></p> <p><b>Speech Title: Artificial Intelligence in Real World Applications</b>  <b>Prof. Dhiya Al-Jumaily (PhD) - UK</b>  Faculty of Engineering and Technology  Liverpool John Moores University, England  <a href="mailto:D.Aljumeily@ljmu.ac.uk">D.Aljumeily@ljmu.ac.uk</a></p>
	<p><b>Keynote Speech II</b></p> <p><b>Speech Title: Water as the Essence of Life</b>  <b>Prof. Rafid Al-Kadhar (PhD) - UK</b>  Liverpool John Moores University Liverpool, UK</p>
10:40-11:10	
11:10-11:40	<p><b>Keynote Speech III</b></p> <p><b>Speech Title: Impact of the Development in Computer Technology on the Progress in modern Theoretical Chemistry.</b>  Prof. Muthana Shanshal,  University of Baghdad  <a href="mailto:mshanshal2003@yahoo.com">mshanshal2003@yahoo.com</a></p>
11:40-1:00	<b>ART Gallery, Coffee Break</b>
1:00-02:00	<p><b>Exhibits</b></p> <ul style="list-style-type: none"> <li>- Moving to UoF Medical School Building</li> <li>- Exhibit Inaugurations, Ribbon Cutting Ceremonies, Painting &amp; Calligraphy Arts Exhibit.</li> <li>- Women Entrepreneurship Workshop "<b>Women in E-learning</b>"  <b>Tutorial Lecture: Dr. Shema Khan (PhD) – USA</b>  (Ibn Sina- Hall )</li> </ul>

## International Physics Workshop Sessional Discussion (Presentation)

### Session 1 (UoF- Ibn-El-Baytar Hall) Workshop Code: SSP1

Time Duration	Physics Applications: Material Session Chairs: Prof. Nabeel I. Fawaz, Assist. Fezaa S. Neda		
	Paper ID	Title	Time
	SSP11	Estimating the Effect of Rotor Diameter on the Physical Properties of NACA0015 Airfoil-Based Vertical-Axis Wind Turbine	01:00-01:15
	SSP12	Pulse Width Modulation Generation Based on Laser Using Ultrasonic Frequency	01:15-01:30
	SSP13	Study the Electronic Properties of Boron Nitride Diamond Nanostructure using Ab-initio DFT	01:30-01:45
01:00-02:00	SSP14	Study Quadrupole Deformation Parameters for fp-shell Nuclei with Different Model Spaces	01:45-02:00

Total Papers: 4

### Session 2 (UoF- Ibn-El-Baytar Hall) Workshop Code: SSP2

Time Duration	Physics Applications: Material & Medical Physics Session Chairs: Prof. Mahdi H. Suhail, Assist. Prof. Seham S. Abdullah		
	Paper ID	Title	Time
	SSP21	Measuring the Radiation Exposure Rate for Colleges, University of Fallujah	02:00-02:15
	SSP22	The effect of the electronic devices on children	02:15-02:30
02:00-02:45	SSP23	The Influence of Age on Pulmonary Function, A Cross Sectional Study on a Sample of Healthy Iraqi Males and Females Population.	02:30-02:45

Total Papers: 3

## Scientific Posters



### International Physics Workshop (Scientific Posters)

Title	Author(s)	Paper Title
<b>El-Furat Hall</b>	Moaad Motlak, Ammar Hamza, Sameer Nawa	Synthesis and application of Co/TiO <sub>2</sub> nanoparticles incorporated carbon nanofibers for direct fuel cell
	Alaa Mustafa Theaban, Karima Saber Wadi	Morse potential rotation effect and effective potential for Li <sub>2</sub> molecule
	Asmaa N. Ahmed, Ashraf M. Alattar, Ruaa A. Mohammed	Study and Analysis the Wisdom Tooth Characteristic Using LIBS, SEM and EDS
	Basim Khalaf Rejah, Ali. T. Aljanadi, Ayaat Abdalzhra Hussein Wijdan Thamer Fezaa	Calculation of Concentrations and Transfer Factors of Uranium from Soil to Plants Using Nuclear Track Detector CR-39
	Ibrahim H. Alfahdaw, Mohammed Gh. Hammed, Jamal M. Rzaij	Evaluate (0.2% CHX) Disinfection Solution Effects Incorporation on the Setting Time, Setting Expansion and Compressive Strength of Dental Stone
	Leena F.Hamz, Bushra A.Hasan	Gas Sensing Properties of SnO <sub>2</sub> Thin films and Binary Systems Compounds
	Abdulsattar Gh. Enad, Estabraq T. Abdullah, Mohammed Gh. Hamed	Study the Electrical Properties of Carbon Nanotubes / Polyaniline Nanocomposites
	Manahil E. Mofdal, Batool Eneaze Al-jumaili, Zainal A. Talib, Ibrahim Bagudo Mu'd, Mubarak tagbo	The evaluation of Temperature effect on Peak-to-Peak Line Width ( ) of Conjugating polymer polypyrrole (Ppy PP H)
	Omar Sh. Shafeq	Gamma Irradiation Effects on Energy Transfer Parameters for Acrvoven – Rhodamine19 Binary Laser Dye Mixtures
	Hafidh Yousif Abed, Mohammad Almasi-Kashi, Shihab Ahmed Zaidan	Effect Grain Size on Physical Properties of (Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> -MgO-Al <sub>2</sub> O <sub>3</sub> ) System
	Nabeil I. Fawaz, Ahmed Hameed	Cladding effects on Wave propagation in Dielectric Slab waveguide
	Moaad Motlak, Ammar Hamza, Sameer Nawa	Synthesis and application of Co/TiO <sub>2</sub> nanoparticles incorporated carbon nanofibers for direct fuel cell
	Noor S. Abed1, Abdulsalam S. Baqil, Bilal A. Omer2, Shatha H. Mahdi3, Kareem A. Jaseem3 and Saja Amer Ahmed3.	Manufacturing and studying the effect of partial substitution on the properties of the compound Bi <sub>2-x</sub> Ag <sub>x</sub> Sr <sub>1.9</sub> Ba <sub>0.1</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10+δ</sub> superconductors
	Nidhala Hassan Kadim, Basim Khalaf Rejah, Ruwidadah Tarik Mahdi, Ayaat Methaq Khalaf, Ahmed H. Ali	Radon and Uranium Specific Activity in Some Plants in Iraq
	Suad hammed Aleabi1, Anaam W. Watan1, Hind A. Mahdi1, Rihab Nassr Fadhill1, Kareem A. Jasim1	Study the effect of gamma Irradiation on the Superconducting Properties of HgBaSrCa <sub>2</sub> Cu <sub>3</sub> O <sub>8+δ</sub>
	Mohammed T. Hussein and Mohammed Jawad H. Kadhim	Spectroscopic and structural properties of ZINC Phthalocyanine thin films prepared by pulsed laser deposition

**Total Posters: 16**