

First African Conferences on Research In Chemistry Education [ACRICE-1]

Programme

Thursday 5 December

10:00	Registration
13:00	Lunch
14:00	Opening Ceremony Federation of Africa Societies of Chemistry (FASC) representative Addis Ababa University (AAU) representative Chemical Society of Ethiopia (CSE) representative Royal Society of Chemistry (RSC) representative Guest of Honour
Session Chair:	
14:30 PL01	The Systemic Chemistry Education Reform in the Global Age: SATLC-Applications Prof. Ameen F. Fahmy Faculty of Science, Department of Chemistry Ain Shams University, Abbasia, Cairo, Egypt
15:15 PL02	The Chemists Triangle and a General Systemic Approach to Teaching, Learning and Research in Chemistry Education John D. Bradley RADMASTE Centre, School of Education, University of the Witwatersrand, Johannesburg, South Africa
16:00 KL01	Development and Evaluation of a Systemic Assessment Framework in Organic Chemistry Chryssa Tzougraki University of Athens, Department of Chemistry, Panepistimiopolis, Zografou, 15771, Athens, Greece
16:20	Tea and Coffee break
16:50 PL03	The Use of Web Based Educational Material in a New Chemistry Curriculum Jan Apotheker University of Groningen, Groningen The Netherlands
17:35 PL04	Do no harm: Evaluating the impact of the integration of iPads into chemistry classrooms George R. Shelton Austin Peay State University, Clarksville, TN, United States

Friday 6 December

Session Chair	
09:00 PL05	ICT-enhanced Development of Chemistry Teachers Temechegn Engida Immediate Past President, FASC, Editor-in-Chief, AJCE UNESCO-IICBA
09:45 KL02	Lessons Learned about Student Success in First-Semester General Chemistry from the Implementation of Electronic-Homework Systems Diana Mason University of North Texas, Denton, TX, USA, Department of Chemistry, 1155 Union Circle #305070, Denton, TX 76203-1570, USA
10:15 KL03	Empowerment of Teaching and Learning Chemistry through Information and Communication Technologies ICT Boshra Awad Faculty of Women for Arts, Science, and Education Ain Shams University, Cairo, Egypt
10:45	Tea and Coffee Break
11:15 KL04	Measuring the Effects of Class Scheduling on Student Success in High School Chemistry using Content-based versus Logical Thinking-based Commercial Software Robyn Ford University of North Texas, Department of Chemistry, 1155 Union Circle #305070, Denton, TX, USA 76203-5017
11:45 KL05	ODL Chemistry Post-graduate Student Training Fikru Tafesse UNISA Chemistry Department, South Africa
12:15 O1	Appropriate use of Technology in the Classroom, and its Impact on the Quality of Teaching and Learning Chemistry in Colleges and Universities Sintayehu L. Kitaw Debre Markos University, Ethiopia
12:35 O2	Cell Phones as Viable Alternative to Traditional Type Clickers in Large First Year Chemistry Classes Marietjie Lutz Department of Chemistry and Polymer Science, Stellenbosch University,

	Private Bag X1, Matieland, 7602, South Africa
12:55	Lunch Break
Session Chair	
13:30 KL06	The Role of Learning Styles on Students' Academic Performance in Some Fundamental Chemical Concepts Dereje Kidanemariam Debre Berhan University, Debreberhan, Ethiopia
14:00 KL07	Chemical Principles Visualized David A. Katz Department of Chemistry, Pima Community College, 2202 W Anklam Rd., Tucson, AZ 85709, USA
14:30 KL08	The Relationship Between Science Teaching and Critical Thinking Skills: Where? Does the Teacher Stand for? Murat Gunel Faculty of Education, TED University, Ankara, Turkey
15:00 KL09	Visualization of Reaction Mechanism by CG Based on Quantum Chemical Calculation for Acquisition of Image: Approach to Development of Experimental Program Akira Ikuo Department of Chemistry, Tokyo Gakugei University 4-1-1 Nukuikita-machi, Koganei-shi, Tokyo
15:30 KL10	Mnemonics as an Innovative Approach to Creative Teaching of Secondary School Chemistry Adepoju O. Adedimeji Faculty of Education, Gombe State University, Gombe, Nigeria
16:00	Tea and Coffee Break
16:30 KL11	Plurality of Interconnecting Approaches to Meet the Challenges of Under-preparedness and Disadvantage Liliana Mammino Department of Chemistry, University of Venda, South Africa
16:50 O3	Systemic Assessment Relationship to Cognitive Structure and Perceived Academic Self-Perceptions: An Experimental Study Sabrin Talab Faculty of Education, Ain Shams University
17:10	Close
19:00	Conference Dinner

Saturday 7 December

Session Chair	
08:30 PL06	The Challenges for Chemistry Education in Africa Zafra M. Lerman The Lerman Institute for the Advancement of Science 1911 Grant St. Evanston, IL 60201
09:15 KL12	Molecular Visualization in Chemistry Education: From Symmetry Principles to Platonic Solids, Transition Metal Complexes and Proteins' Structure M.P. Sigalas Department of Chemistry, Aristotle University of Thessaloniki 54124 Thessaloniki, Greece
09:45 KL14	What Makes Chemistry Difficult? Melaku Masresha Dire Dawa University, Ethiopia,
10:15	Tea and Coffee Break
10:45 PL07	Ethical Aspects in Chemical Education Leiv K. Sydnes Department of Chemistry, University of Bergen, Allégt. 41, 5007 Bergen Norway
11:30 KL15	Advanced Strategy for Teaching Pharmaceutical Chemistry Courses by Replacing the Old Fashion SAR Methods by the 3D Pharmacophores Methods Mohamed A. Ismail Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
12:00	Lunch Break
13:00 O4	Using an Assessment based on Bloom's Taxonomy and Schönborn and Anderson's CRM Model to Identify Pharmacy Students' Difficulties with Acid-Base Concepts Rethabile R. Tekane Chemical Education Division, Department of Chemistry, Purdue University, USA
13:20 KL16	To Professionals: Chemical Safety and Chemical Security Overview Wafaa Abduo Chemical Industries Division, National Research Centre, Elbohouth St.,Dokki, Cairo, Egypt
13:50 KL17	Micro scale Chemistry Iftikhar I. Naqvi Chemistry Department, Jinnah University for women, Karachi, Pakistan

14:20 O5	Micro- scale Chemistry (MSC) Experimentation for Ethiopian Secondary Schools: Development and Evaluation Gebrekidan Tesfamariam Department of Chemistry, Norwegian University of Science and Technology, NTNU (Norway)
14:40 PL08	Teaching Supramolecular and Nano-Chemistry: The Problem of Non-stoichiometry Janusz Lipkowski Department of Supramolecular Complexes, Institute of Physical Chemistry, Polish Academy of Sciences, Kasprzaka 44/52, 01 224 Warszawa, Poland
15:25	Closing Remarks
15:30	Tea and Coffee Break
16:00	Conference Tour