



## SAICSE-ACS SHARE

SCIENTIFIC KNOWLEDGE THROUGH NETWORKING



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Saudi Arabian International Chemical Sciences

**ORGANON**

Chapter of the American Chemical Society **2017** Issue 2



Prof. Mohammad Nahid Siddiqui  
Chair 2017, SAICSC-ACS

## WELCOME **NOTE** FROM **CHAIRMAN**

Dear SAICSC-ACS members,

After prolong summer break, I warmly welcome all esteemed members to the second issue of Organon 2017. The SAICSC-ACS always endeavours to provide an interactive platform to its members. One of the main task is to enhance and improve knowledge of the chemistry professionals and networking through regular technical dinner monthly meetings, sponsoring events at Chemistry department of King Fahd University of Petroleum and Minerals such as Seminars, Open days and Research days.

I would also like to take this opportunity to highlight the upcoming 4th INTERNATIONAL CONFERENCE AND EXHIBITION ON LABORATORY TECHNOLOGY (LABTECH 2017) organized by SAICSC-ACS. The Labtech 2017 conference will be held under the patronage of HE Prince Mohammad bin Khalifa Al-Khalifa,

Minister of Oil, Kingdom of Bahrain. The theme of the conference is "Transforming Laboratory Proficiency into a Core Value". The Labtech 2017 has a very rich technical program where scientists from different part of the globe are going to share their expertise. A panel discussion is also being organized under the title, "Transformation and integration of laboratory techniques to complement regional industrialization". I take this opportunity to invite all members of the SAICSC-ACS to come, share scientific knowledge, and enjoy the benefits of networking.

I wish all the success to the upcoming events.



## TECHNICAL DINNER MEETING APRIL 2017

The Saudi Arabian International Chemical Sciences Chapter of the American Chemical Society (SAICSC-ACS) held its April 2017 edition of the monthly technical dinner meeting on Monday, 17th of April 2017 at Le Meridien hotel, Al-Khobar.

At the meeting, an important lecture was delivered by **Dr. AHMAD M. ALABDULQADER** from the King Abdulaziz City for Science and Technology (KACST). The lecture was titled "Grants Program for Universities and Research Centers".

Dr. Ahmad delivered a presentation on the recently launched grants program to support local universities and research centers. He explained more details on the following grant programs namely, 1) Graduate Student Research Program, 2) Basic Science Research Program, 3) Applied Research Program, 4) Innovative Research Program, 5) Directed/Oriented Research Program, 6) Industrial Innovation Program and 7) Industrial Innovation Centers

Dr. Ahmed Mohammed Alabdulqader is currently serving as the secretary general for grants programs for universities and research centers, and the secretary general for the National Plan for Science, Technology, and Innovation (MAARIFAH) at KACST. Dr. Alabdulqader is a member of KACST of Saudi Arabia since 1987, a member of Saudi Arabia official delegation at the United Nations Convention for Climate Change and Kyoto Protocol and Asian lead negotiator on the green climate change fund. He also served as a consultant and an advisory board member for some international organizations and scientific international associations.

At the end of presentation, society members actively engaged with Dr. Ahmed and the dinner was served after a question and answer session.



The Saudi Arabian International Chemical Sciences Chapter of the American Chemical Society (SAICSC-ACS) held its 1st May 2017 monthly technical dinner meeting on May 1st, 2017.

A lecture titled “Renewable Energy” was presented by **MR. MOHAMMAD A. ABUNAYYAN**, Chairman, ACWA Power.

Mr. Mohammad A. Abunayyan has a proven track record of achievements and successes which positioned his name among the most influential business leaders in Saudi Arabia. Mr. Abunayyan is the most prominent business leaders of the Saudi industrial

and investment sectors. With an in-depth expertise and experience extending over three decades in the industrial and investment sectors in Saudi Arabia, Mr. Abunayyan is responsible for driving the company, putting its vision and strategy into action to make it a leading company in the electricity and water desalination sectors locally, regionally and globally. In addition to his position as a Chairman of ACWA Power, Mr. Abunayyan is a board member of many leading companies in Saudi Arabia, occupying leadership and executive roles in the most prominent and well-known companies in the Kingdom. Over 11 years, Mr. Abunayyan successfully

# TECHNICAL DINNER MEETING May 2017



managed to position ACWA Power as the second-largest developer and operator in the electricity generation and water desalination sectors in GCC countries, making it a robust competitor among the global players within a growth and expansion strategy which enabled the company to address the needs of more than 10 countries in 3 continent to power and water.

In his presentation, he explain many success stories of his company and renewable energy solutions. He explain the demand for solar and wind energy solutions for local market, with emphasis on large-scale renewable energy deployment of solar PV and CSP to wind through developing local content in both goods and services.

# TECHNICAL DINNER MEETING SEPTEMBER 2017



The Saudi Arabian International Chemical Sciences Chapter of the American Chemical Society (SAICSC-ACS) held its monthly technical dinner meeting on Wednesday, Sep 27, 2017 at the Holiday Inn hotel in Al-Khobar.

**DR. THEODOR AGAPIE**, Professor of Chemistry at California Institute of Technology (Caltech) was delivered an interesting presentation on the "[Advances in Polymerization Catalysis](#)".

Dr. Agapie explain the polymerization catalysis which include challenges in controlling polymer microstructure, the incorporation of polar co-monomers, and applications of bio-derived non-olefin monomers. The selective synthesis

of alpha olefins co-monomers were also discussed in his presentation.

Dr. Theodor Agapie is a Professor of Chemistry at California Institute of Technology and received his B.S. degree from Massachusetts Institute of Technology in 2001 and his Ph.D. from California Institute of Technology in 2007. He was a Miller Postdoctoral Fellow at University of California, Berkeley. Dr. Agapie start his independent career as Assistant Professor of Chemistry in 2009 and Professor of Chemistry since 2014. His research focuses on synthetic inorganic and organometallic chemistry on topics related to energy conversion, catalysis, and upgrading readily available chemical precursors.

4th

# LABTECH PROGRAMME HIGHLIGHTS

**DAY-1**

November 7  
2017

## CONFERENCE INAUGURATION

08:00 to 9:30 hours



**HE SHAIKH MOHAMMED BIN KHALIFA AL-KHALIFA**  
Minister of Oil  
Kingdom of Bahrain



**MR. SULEMAN AL-BARGAN**  
Executive Dir. of Refining & NGL Fractionation  
Saudi Aramco, Kingdom of Saudi Arabia



**PROF. PETER K. DORHOUT**  
2018 ACS President  
USA

## KEYNOTE SPEAKERS

10:00



Keynote Speaker  
**PROFESSOR MARTIN J. HEENEY**  
Imperial College London, UK

**Presentation:** Micro-droplet reactors as a route to reproducible and scaleable polymer preparation: case studies with conjugated polymers for plastic electronic applications

10:30



Keynote Speaker  
**PROFESSOR ABDULLAH AL-ASIRI**  
Head of the Chemistry Department at  
King Abdulaziz University, Saudi Arabia

**Presentation:** Organic transformations of nitroarenes by using silver nanocatalysts supported by different polymeric materials

11:00



Keynote Speaker  
**DR. SAFA GEORGE**  
Advisor to Leading R&D  
Organizations, USA

**Presentation:** Laboratory of the future- technology innovation speed to market

4th

# LABTECH PROGRAMME HIGHLIGHTS

**DAY-2**

November 8  
2017

## KEYNOTE SPEAKERS

08:00 to 8:30



Keynote Speaker  
**PROFESSOR ARMIN BÖRNER**  
Head of Applied Catalysis Department at  
LIKAT Rostock, Germany

**Presentation:** From fundamental chemical  
research to industrial applications - Some  
case studies

8:30 to 9:00



Keynote Speaker  
**PROFESSOR, JOSEPH STOKES**  
Dean of Graduate Studies, Dublin City  
University, Ireland

**Presentation:** Laboratory testing; to  
optimize or not to optimize? Design of  
experiments is the question?

9:00 to 9:30



Keynote Speaker  
**DR. JUSTIN L. MYNAR**  
Associate Vice President for  
Research & Executive Director  
for the Core Labs at KAUST, Saudi  
Arabia

**Presentation:** The Core Labs'  
role in pursuit of building an  
enduring model for advanced  
education,  
scientific research and economic  
development

09:30 to 9:40  
**Coffee Break**





4<sup>th</sup>

# LABTECH PROGRAMME HIGHLIGHTS

**DAY-3**

November 9  
2017

## PANEL DISCUSSION

08:00-08:30 hours



Keynote Speaker  
**DR. MARK HODGKINSON**  
Head of Operational Excellence at BAPCO,  
Bahrain

**Presentation:** *The influence of laboratory operations on company operational excellence*

08:30-11:30  
hours



Moderator:  
**PROFESSOR HALIM HAMID**, CEO,  
Dhahran Techno Valley Company,  
Saudi Arabia

**Theme of Panel Discussion:**  
*Transformation and integration of laboratory techniques to complement regional industrialization.*



**PROFESSOR CARSTEN SCHWANDT**  
National Chair of Materials Science and Metallurgy Distinguished Visiting Fellow, Universities of Nizwa & Cambridge, Oman

**Presentation:** *Hydrogen analysis in molten Aluminium – from the laboratory to the casthouse*



**DR. CRISTINA MARTÍNEZ**  
Instituto de Tecnología Química, Spain

**Presentation:** *Model reactions as tools for prediction of catalytic behavior in industrial processes*



**DR. MOHAN S. RANA**  
Manager for "Optimization of Petroleum Refinery Processes Program" at PRC, KISR

**Presentation:** *An integrated approach to heterogeneous catalysis: Model testing and in-situ characterizations*



**MR. AHMED AL-MUTAIRI**  
Director-General of GCC Accreditation Center (GAC), Saudi Arabia

**Presentation:** *Accreditation & its impact on conformity assessment infrastructure and trade*

11:30-12:00 hours

Closing Ceremony



Chemistry Department at King Fahd University of Petroleum and Minerals (KFUPM) organized a 2nd Student Research Poster day. This event was sponsored by the society, the symposium highlight the research projects accomplished by the graduate and undergrad students of the department in the form of posters. Posters were reviewed by the experts from Aramco and Sabic.

SAICSC-ACS board Chairman and director, College of Science Dean, **PROF. SULIMAN SALEH AL-HOMIDAN** and Vice Rector for Academic,

**Prof. Mohammad Saad Al-Homoud** of KFUPM and industries from Dhahran Techno Valley were attended the poster day.

At the end of the symposium, cash prizes and certificates were distributed to the winners by Prof. Al-Homoud and the Chairman of Chemistry Department Prof. Abdulaziz Alsaadi.

Society's support was acknowledged by the Vice Rector.



Under the patronage of  
**HE Shaikh Mohamed bin Khalifa Al-Khalifa**  
Minister of Oil, Kingdom of Bahrain  
THE 4<sup>th</sup> INTERNATIONAL CONFERENCE AND EXHIBITION ON  
**LABORATORY TECHNOLOGY**

*"Transforming Laboratory Proficiency into a Core Value"*

Conference: 7-9 Nov 2017  
Exhibition: 7-9 Nov 2017  
Tech. Courses: 5-6 Nov. 2017

VENUE: The Gulf Hotel , Kingdom of Bahrain



## WELCOME TO LAB TECH CONFERENCE AND EXHIBITION

The 4th LabTech conference is being organized by the Saudi Arabian International Chemical Sciences Chapter of the American Chemical Society which will provide an industrial and academic platform for researchers from all over the world to convene in Kingdom of Bahrain and showcase their latest scientific discoveries in the areas of work force development, quality, health, safety and environment management.

The 2017 Conference continues LabTech's tradition of a strong technical program. Colleagues, I have the honor of working with organizing committee members from Saudi industrial and academia sectors, and GCC research institutions. The highest level of interest and attendance at our LabTech Conference and Exhibition clearly shows the level of interest in this event where a large number of world's leading scientists, researchers, engineers, technologists, will be exploring new scientific ideas on how to transform laboratory quality from priority into core value.

It is also appropriate to thank all of those people who participated as advisory committee members. Much of the benefits of their advice and support will be reflected in the quality of the technical program of this conference.

Dear colleagues, I conclude this brief welcome remarks by thanking you for your strong support for LabTech Conference and by encouraging you to participate actively in the coming conference with a spirit of collaboration and with a willingness to share knowledge, exchange new ideas, and respect alternative viewpoints.

**Dr. Ibrahim M. Al-Zahrani**  
Conference Chairman

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You can get a digital copy of all the issue at [www.saicsc-acsc.com](http://www.saicsc-acsc.com)

# THE 2nd RESEARCH POSTER DAY 2017

