



**Saudi Arabian International Chemical Sciences Chapter
of American Chemical Society**

Saudi Aramco Post Box 1723
Dhahran 31311, Saudi Arabia

2006 SAICSC-ACS Annual Report

2006 Board Members:

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2006 Board Members



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2006 Monthly Dinner Meetings

1. January Technical Meeting

Topic: Kingdom of Saudi Arabia Accession to the World Trade Organization (WTO)

Speaker:

Mr. Fareed Al-Asaly

Senior Planning Consultant and Corporate Advisor
Saudi Aramco Corporate Planning

Abstract

The Accession of the Kingdom of Saudi Arabia to the World Trade Organization on December 11, 2005 opened the door for one of the largest free-market economies to become the 149th member of the WTO, bringing it further to becoming a universal organization. Saudi Arabia's accession process started over a decade ago. In that process, it undertook important economic reforms touched virtually all sectors of its economy. Saudi Arabia's importance on the international stage cannot be underestimated. It is the World's 13th largest merchandise exporter and the 23rd largest importer. It is also an important services trader. As a result of the negotiations, Saudi Arabia has agreed to undertake a series of important commitments to further liberalize its trade regime and accelerate its integration in the world economy, while offering a transparent and predictable environment for trade and foreign investment in accordance with WTO rules.

2. February Technical Meeting

Topic: *Solving COMMON corrosion Problems with Non-Intrusive Fiber Optic Corrosion Monitoring Sensors*

Speaker:

Mr. Thierry Cherpillod

Manager of Engineering and Senior Filed Project Manger
Fiber Optic System Technology

Abstract:

Some of the most common corrosion problems in refineries can be addressed with the help of non-intrusive corrosion and process monitoring tools. One of such tools is the long gage length FT fiber-optic sensor system which, in addition to monitoring wall loss, can also monitor pressure and temperature profiles. Being non-intrusive, the sensors can be installed without shutting down the equipment. For crude unit overhead piping suffering HCl condensation corrosion, the operators can rely on the wall loss measurements and temperature profile to adjust process parameters to minimize condensation or to inject optimum amounts of neutralizers or filming amines. For ammonium bi-sulphide corrosion, the changes in temperature profiles can be used to determine the amounts and frequency of wash water injection. In other equipment, which is affected by



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turbulence-enhanced erosion/corrosion, fiber optic sensors can be used to measure wall loss in real time to increase safety and to allow more efficient planning of turnarounds.

3. April Technical Meeting

Topic: *Perspective on Growth in Petrochemicals Role of Finance*

Speaker:
Mr. Mutlaq Al-Murashed
Chief Financial Officer
SABIC

ABSTRACT

The global petrochemical industry's center-of-gravity is moving towards the best-cost areas that have ready access to the world's high-growth markets. Ready access to competitively priced feedstock and proximity to the high growth markets make the GCC member states, the world's first choice for new petrochemical production facilities and perhaps the world's best choice for investment in the petrochemical industry. The presentation will address the factors affecting the growth in petrochemicals and role of Project Finance.

4. May Technical Meeting

Topic: *Saudi Arabia Nanotechnology Initiative*

Speaker:
H.H. Prince Dr. Turki bin Saud Al-Saud
VP Research Institutes
KACST

ABSTRACT

Nanotechnology is regarded world-wide as one of the key technologies of the 21st Century. Nanotechnologies products and processes hold an enormous economic potential for the markets of the future. As part of King Abdulaziz City for Science and Technology (KACST) commitment in advancing research in the nanotechnology area, KACST Adopted an ambitious plan which include the establishment of a new National Nanotechnology Center as a foundation for broader national initiative in the nanotechnology field. The principle goal of the new center is to promote collaborative efforts between KACST, academia and industries to identify and target new and promising opportunities in the nanotechnology field in order to achieve responsible and sustainable economic benefits.



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5. June Technical Meeting Jointly with NACE-Saudi Arabian Section

Topic: A Versatile Microbic for Control of Bacteria in Oil Filed Syestem

Speaker:

Dr. Joseph E. Penkala
Senior Product Specialist
Baker Petrolite Corporation

ABSTRACT

Acrolein (2-propenal) is a microbiocide that has been used to mitigate bacterial problems in oilfield systems. The applications are widespread and include production and injection wells, surface equipment, and water injection systems. In 89% of the laboratory studies conducted, acrolein shows superior biocide performance against general aerobic and facultative anaerobic bacteria (GAB) and SRB in a cost competitive manner. Its properties of oil solubility and biofilm penetrability render it a versatile and effective biocide for targeting persistent sessile populations of bacteria that are often inaccessible to conventional biocides. Due to its low minimum inhibitory concentration, acrolein finds success not only in batch applications but also in continuous treatment programs.

6. October Technical Meeting

Topic: *Dhahran Techno-Valley at KFUPM: A local Mission with a global Vision*

Speaker:

Dr. Faleh Al-Suliman
Supervisor, Dhahran Techno-Valley
KFUPM

7. November Technical Meeting

Topic: *Catalytic Fuel Processors for Hydrogen Fuel Cells*

Speaker:

Professor Valentin Parmon
Director, Borskov Institute of Catalysis

ABSTRACT

The presentation gives an overview of the achievements of the Borskov Institute of Catalysis in designing compact generators of pure hydrogen which are based on catalytic processing of various kinds of starting substances (hydrocarbons, alcohols, DME, and boronhydrides).



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2006 In-Kingdom & Out of Kingdom Trips & Special Events

In-Kingdom Trip

SAICSC-ACS organized an In-Kingdom Trip to Holiday Inn Resort, half moon beach on May 03-05, 2006 to the SAICSC-ACS international members and their families. Costs were 50% sponsored by the society. A total of 40 members and their families were participated in this trip and enjoyed many activities. Special boat cruise and moon light dinners were also sponsored by the society. The members and their families cruised aboard one of the traditional wooden boats offering intriguingly different views of this amazing beach. The trip was very enjoyable and society members and their families had the opportunity to interact and know each other more. It was great fun!

Out of Kingdom Trip

The society organized a five-day OOK trip to Istanbul, Turkey from August 31 to September 04, 2006. Members and their families had the chance to visit the various areas in this amazing city. This includes a visit to Sultan Ahmet Square, the heart of Istanbul from where the Byzantine and Ottoman Empires were ruled. They also visited Sultan Ahmet Mosque (Blue Mosque) with famous blue Iznik tiles with unique 6 minarets, built in the name of Sultan Ahmet. They also had the opportunity to visit Grand Covered Bazaar for shopping. Nearly 4000 shops selling carpets, antiques, leather, jewellery, gold and souvenir. A full day Prince's Islands tour was also organized by some members. They took a boat to Prince's Islands the Marmara Sea. They had the chance to see three different Islands and had break at Prince Island for lunch and entertainment. Some members and their families decided to travel to Bursa City where they enjoyed the beautiful weather at the top of the city.

Feedback from members who participated in this trip indicated that they and their families have enjoyed this trip a lot. They pointed out that the arrangements for the trip have been made in a very professional way and commended the Society for arranging such wonderful trip.

Chemistry Awareness Day at SCITECH

Strongly believing in their mission to spread chemical sciences to the public, the department of Chemistry at King Fahad University for Petroleum and Minerals and the Saudi Arabian International Chemical Sciences Chapter of the American Chemical Society (SAICSC-ACS) organized a chemistry awareness exhibition at SCITECH on May 17-18 2006. Around 3,500 kids, students and parents attended the exhibition during these two days. They interacted enthusiastically with the technical staff that performed many exciting experiments.

Visit to SCITECH

SAICSC-ACS organized a special visit to Sultan ibn Abdulaziz Science and Technology Center on March 13, 2006. More than 100 SAICSC-ACS members and their families have attended a movie "Island of the Sharks" along with an informative tour at SCITECH.



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ORGANON Newsletter.

To further publicize for the SAICSC-ACS different activities and interact with the society; during 2006 the SAICSC-ACS issued three newsletter compiling technical articles as well as major society activities. Please refer to Attachments.

CHEMIDEX 2007

Theme of this year's conference will be "Oil Based Opportunities in the Growing Chemical Industries".

The Saudi Arabia International Chemical Sciences Chapter of the American Chemical Society (SAICSC-ACS) and the Bahrain Society of Chemists (BSC) are pleased to announce the 7th International Conference and Exhibition on Chemistry in Industry, CHEMINDX 2007. This conference will be held under the patronage of his highness Shaikh Khalifa bin Salman Al-Khalifa, the Prime Minister of the Kingdom of Bahrain, at the Gulf International Convention Center, Gulf Hotel, Manama, Kingdom of Bahrain, March 26-28, 2007.

The event is the seventh in a series of bi-annual meetings which began in 1992 and addresses the latest advances in industrial chemistry. The conference will feature several technical sessions with keynote presentations by prominent industry professionals from around the world, and will include a plenary session entitled "Oil to Petrochemicals: Future Opportunities and Challenges". In addition, there will be a series of two days courses conducted in the days immediately prior to the conference.

This upcoming conference will reinforce the mission of previous conferences to address the challenges facing the petroleum and petrochemical Industries in the region. This conference also offers an excellent opportunity for scientists and engineers from the gulf region, Middle east and worldwide to discuss issues of common interest. The exhibition, which will be held in conjunction with the technical sessions, will provide an excellent opportunity for companies to display their latest products and services, under one roof, to all concerned participants in this field.