



ORGANIZATION OF ARAB PETROLEUM EXPORTING COUNTRIES (OAPEC)  
IFP



# Improved Oil Recovery Techniques – IOR – and their Role in Boosting the Recovery Factor

**OAPEC-IFP joint seminar**

*IFP - Rueil-Malmaison*

*26-28 June 2007*

IFP and the OAPEC jointly organize a regular international seminar dealing with world oil-related problems currently making the headlines.

This seminar is open to oil and gas company specialists, service companies, research centers and independents.

With an average recovery factor of only 35% today, there is great potential for building additional reserves from existing fields. Raising the recovery factor to 50% or even higher will increase worldwide reserves by several hundred billion barrels. Enhanced oil and gas recovery processes (EOR - EGR) and their modern version, Improved Oil Recovery (IOR) - which benefits from the best of reservoir management combined with advanced technologies and methods - are the focus of considerable attention today, as they represent a great opportunity for oil producing countries, and among them the Arab Petroleum Exporting Countries.

However a number of challenges will have to be overcome before we can significantly increase the recovery factor. These include the need to reduce uncertainties in reservoir description in order to optimize recovery processes. Another challenge will be to develop efficient technologies for producing heavy oils, currently a goal for many countries. Lastly, we need to produce an optimized development schedule that will allow the implementation of an economical IOR process.

All of this requires substantial, ongoing R&D efforts.

The seminar will be held over three days, combining presentations of frontier technologies and field cases.

- The first day will be devoted to setting the scene, recalling the challenges that have to be faced globally, and more specifically those concerning the OAPEC countries. Then there will be two sessions dedicated to optimized gas injection processes and the production of carbonate reservoirs.
- The merits of developing an integrated approach from laboratory investigation to field implementation will be dealt with on the second day. The day's program will also include a specific session dealing with the production of heavy oils.
- The last day will be dedicated to the way forward as we identify and discuss research needs and trends that will equip the oil and gas industry to meet the challenges ahead of it in the coming years. To conclude, a panel session will be organized to identify the key drivers and barriers for EOR / IOR.

Gathering company representatives from the Arab Petroleum Exporting Countries, IFP researchers and other major stakeholders for this three-day seminar should help design the best possible roadmap for securing a brilliant future.

## About IFP

As an international research and training center, IFP is developing the transport energies of the 21<sup>st</sup> century. It provides public players and industry with innovative solutions for a smooth transition to the energies and materials of tomorrow – more efficient, more economical, cleaner and sustainable.

To fulfill its mission, IFP has 5 complementary strategic priorities:

- pushing back the boundaries in oil and gas exploration and production
- converting as much raw material as possible into transport energy
- developing clean, fuel-efficient vehicles
- diversifying fuel sources
- capturing and storing CO<sub>2</sub> to combat the greenhouse effect.

An integral part of IFP, its graduate engineering school prepares future generations to take up these challenges.

For more information: [www.ifp.fr](http://www.ifp.fr)

## About OAPEC

The OAPEC (Organization of Arab Petroleum Exporting Countries) was established in 1968 with the following major goals:

- to promote cooperation and close ties between the member countries in economic activities related to the oil industry;
- to determine ways of safeguarding their legitimate interests, both individual and collective, in the oil industry;
- to unite their efforts so as to ensure the flow of oil to consumer markets on equitable and reasonable terms;

and to create a favorable climate for the investment of capital and expertise in their petroleum industries.

Algeria, Bahrain, Egypt, Iraq, Kuwait, Socialist People's Libyan Arab Jamahiriya, Qatar, Saudi Arabia, Syrian Arab Republic, Tunisia, United Arab Emirates are the 11 members of the OAPEC.

Visit OAPEC website: [www.oapecorg.org](http://www.oapecorg.org)

# Preliminary Technical Program

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## Tuesday 26 June

- 08:15     **Registration of participants**
- 09:00     **Welcome and opening addresses**  
A. Al-Turki, OAPEC General Secretary  
O. Appert, Chairman and CEO of IFP, France

### **Session I: Setting the scene**

- 09:30     **Focus on the OAPEC countries**  
F. Birol, IEA, France
- 09:55     **IOR in the MENA region: experience gained and potential**  
M. Allababidi, OAPEC
- 10:20     *Coffee break*
- 10:40     **IOR challenges and opportunities: perspectives from an international oil Company**  
P. Pouyane, TOTAL, France
- 11:05     **A Bright future for EOR / IOR**  
N. Alazard-Toux, IFP, France

### **Session II: Gas injection**

- 11:30     **Gas injection in Abu Dhabi fields**  
K. Alhammedi, G. Bindaer, ADNOC, UAE
- 11:55     **CO<sub>2</sub> EOR, an opportunity for a sustainable development of mature reservoirs**  
F. Kalaydjian, IFP, France
- 12:20     **Gas injection in an oil wet reservoir in Bahrain field**  
A.M. Al Haddad, BAPCO, Bahrain
- 12:45     *Lunch*

### **Session III: Carbonate reservoirs**

- 14:15     **IOR / EOR project for seven iraqi fields: joint study between IMOO & NPDP**  
N. Al Bayati, IMOO, Iraq

- 14:40 **From thin section to seismic constraint: example from two carbonate reservoirs in Abu Dhabi and Qatar**  
E. Pluchery, Beicip-Franlab, France
- 15:05 **Challenges and opportunities in Libya**  
B. Bourima, LPI, Libya
- 15:30 *Coffee break*
- 15:45 **Methodology developed by IFP and its partners to improve the fracture network characterisation by the increased use of dynamic data**  
Beicip-Franlab, France
- 16:10 *Adjournment*
- 19:30 **Gala dinner hosted by OAPEC at the "Maison de l'Amérique Latine", Paris**

## Wednesday 27 June

### **Session IV: From lab investigation to field implementation**

- 09:15 **Multiscale approach for shaping an efficient EOR / IOR field management, from lab to reservoir**  
O. Vizika-Kawwadias, IFP, France
- 09:40 **Improved oil recovery in a heterogeneous carbonate reservoir by a judicious application of flood piloting and modeling techniques**  
H. H. Hafez et al., ADCO, UAE
- 10:05 **Productivity enhancement**  
L. Nabzar, IFP, France
- 10:30 *Coffee break*
- 11:00 **Field implementation, 4D reservoir monitoring**  
F. Roggero, IFP, France
- 11:25 **Data acquisition, interpretation and integration for advanced simulation and reservoir management of IOR methods**  
Y.S. Grew et al., AGOCO, Libya
- 11:50 **Enhancing the recovery, a need for improved reservoir simulation tools**  
Beicip-Franlab, France
- 12:15 *Lunch*

### **Session V: Heavy oil and other field cases**

- 13:45 **KOC presentation on heavy oil production**  
author to be confirmed

- 14:10 **PDO presentation on heavy oil production**  
author to be confirmed
- 14:35 **Challenges of heavy oil production**  
M. Safwat, Ganoub El Wadi Holding Petroleum Company, Egypt
- 15:00 *Coffee break*
- 15:30 **Advanced technologies in heavy oil production**  
G. Renard, IFP, France
- 15:55 **SeisMovie™: a continuous land seismic monitoring system**  
J. Meunier, CGG-Veritas, France
- 16:20 **Application of pressure maintenance by water injection to improve oil recovery from Jebel field, Libya**  
G. Montavo et al., Sirte Oil, Libya
- 16:45 *Adjournment*

## Thursday 28 June

### **Session VI: Innovative EOR / IOR processes**

- 09:15 **Looking ahead: the R&D answers**  
M. Bouteca, IFP, France
- 09:40 **Waterflooding in Syria**  
M. Doush, M. Ijpelaar, AFPC, Syria
- 10:05 **Advances in chemical flooding**  
R. Tabary, IFP, France
- 10:30 **Multi lateral horizontal well application to enhance the oil recovery of a mature field, intisar 103L field**  
E. Senturk et al., Zueitina Oil, Libya
- 10:55 *Coffee break*

### **Session VII: EOR / IOR the way forward**

- 11.15 **Panel session**  
M. Bouteca, M. Allababidi, F. Kalaydjian
- 12.00 **Closing remarks**  
M. Bouteca, IFP Exploration & Production Managing Director, France  
M. Allababidi, Director Technical Affairs Department, OAPEC
- 12:30 *Lunch*
- 14:00 **End of seminar**

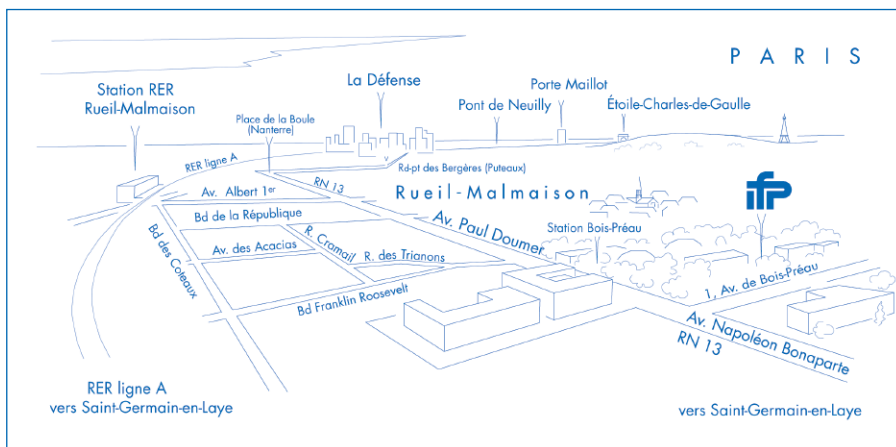
# General Information

## Venue and date

The OAPEC-IFP seminar on **“Improved Oil Recovery Techniques - IOR - and their Role in Boosting the Recovery Factor”** will be held at IFP in Reuil-Malmaison, France, from Tuesday 26 to Thursday 28 June 2007.

## Access

- By car: from Paris, Porte Maillot exit, RN13, direction La Défense/Saint-Germain-en-Laye
- Using public transport by RER:
  - Line A direction Saint-Germain-en-Laye
    - get off at Reuil-Malmaison, Victor Hugo exit, take the 244 bus and get off at “Geneviève Couturier”,
    - or get off the RER at Grande Arche de la Défense, take the 258 bus (direction Saint-Germain-en-Laye) and get off at “Bois-Préau”.



## Visa

Visitors from certain countries outside the European Union need a visa to enter France. Each delegate should apply in adequate time for a visa at the French Embassy or Consulate in the country of present residence. Certain delegates will be asked to present an official invitation to the seminar in order to obtain a visa: a letter of confirmation of your participation will be sent to you upon receipt of the registration form and can be used for your visa application.

## **Lunches and official dinner**

IFP will welcome you in its lounges for the lunches.

There will be an official dinner, hosted by OAPEC on Tuesday 26 June evening, at the "Maison de l'Amérique Latine" in Paris.



Maison de l'Amérique Latine  
217, boulevard Saint Germain  
75007 Paris  
[www.mal217.org](http://www.mal217.org)

The "Maison de l'Amérique Latine" was founded in 1946, in the wake of the French Resistance, under General de Gaulle's impulse of the necessity of having Latin-American and French people meet in order to get to know each other better. Today it is a privileged place of reception and meeting for diplomatic community in Paris and has the ambition of being a crossroad of cultures.

## **Shuttle bus**

A shuttle bus will ensure transfers from the hotels to IFP every morning and back to the hotels every evening. Please fill in the registration form if you wish to use it (detailed information will be sent to you upon receipt of the registration form).

## **Web site**

For more information: <http://www.ifp.fr> heading "Events/Seminars and conferences".

## **Contacts**

### **Scientific correspondent**

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### **Seminar organization**

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or [muchtar\\_lababidi@hotmail.com](mailto:muchtar_lababidi@hotmail.com)

### **Administrative secretariat**

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# Registration

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## Conference fees

Registration fee: € 510 including VAT per delegate (excluding OAPEC Members). Upon receipt of the registration form, Apocope will send you a letter of acknowledgement and information about the seminar.

**Please return the enclosed registration form (one for each delegate), duly completed, before 5 June 2007, to:**

**Administrative Secretariat**

APOCOPE – Ms. Anne Sibois / Ms. Noémie Hasson

29 rue Fondary - 75015 Paris - France

Tel: +33 1 45 78 87 37 - Fax: +33 1 40 59 85 46

Email: [evenement@agenceapocope.com](mailto:evenement@agenceapocope.com)

You can also register directly via the IFP web site: <http://www.ifp.fr> heading “Events/Seminars and conferences/IFP-OAPEC International Seminar: “Improved Oil Recovery Techniques – IOR – and their Role in Boosting the Recovery Factor”

## Payment

Participants are responsible for all bank charges.

All fees are payable in Euros only:

- by check to Apocope
- by wire transfer to the bank:  
Agency: BPRIVES PARIS GRENELLE  
Account holder: Apocope-IFP  
Account no. 10207 00035 04035026952 39  
IBAN: FR76 1020 7000 3504 0350 2695 239  
SWIFT: CCBP FRPP MTG

For payment by wire transfer, please add the bank charges to the total amount and enclose a copy of the bank transfer order by e-mail: [evenement@agenceapocope.com](mailto:evenement@agenceapocope.com)

- by credit card: Visa, Eurocard/Mastercard, American Express

Due to bank charges, commission fees will be applied to credit card payments.

To be accepted, the registration must be accompanied by the payment.

## Cancellation conditions

All cancellations must be notified in writing to Apocope.

- before 5 June 2007: total refund less € 75 for administrative fees
- after 5 June 2007: no refund

## Accommodation

Participants are responsible for their own hotel accommodation.

Hotel reservations are assigned on a first-come first-served basis, according to room availability.

As Paris is very busy at this time of the year, early booking is strongly recommended.

Block bookings have been made for four nights (from 25 June to the morning of 29 June 2007) in several hotels located near Porte Maillot in Paris.

**The following reference must be given to the hotel when booking: “OAPEC – IFP Seminar”**

Hotels will request a credit card number and expiry date in order to reserve rooms.

Hotel	Price in €* Single / Twin	Deadline**
<b>Hôtel Meridien Etoile ★★★★★</b> 81 bd Gouvion Saint-Cyr - 75017 Paris Tel.: + 33 1 40 68 34 34 - Fax: + 33 1 40 68 31 31 <a href="http://www.lemeridien.com">www.lemeridien.com</a> - M° Porte Maillot - line 1 <i>Send back the Reservation Form to book a room</i>	€ 255	18 May
<b>Hôtel Concorde Lafayette ★★★★★</b> 3 place du Général Koenig - 75017 Paris Tel.: + 33 1 40 68 50 50 - Fax: + 33 1 40 68 50 87 <a href="http://www.concorde.lafayette.com">www.concorde.lafayette.com</a> - M° Porte Maillot - line 1 <i>Reservation only with these e-mail addresses:</i> <a href="mailto:groups@concorde-hotels.com">groups@concorde-hotels.com</a> or <a href="mailto:aname@concorde-hotels.com">aname@concorde-hotels.com</a> by mentioning the reference IFP 070625 - OAPEC - IFP Seminar	€ 200 / 210	25 May
<b>Villa des Ternes ★★★</b> 97 avenue des Ternes - 75017 Paris Tel.: + 33 1 53 81 94 94 - Fax: + 33 1 53 81 94 95 <a href="mailto:hotel@hotelternes.com">hotel@hotelternes.com</a> - M° Porte Maillot - line 1	€150	8 May
<b>Magellan ★★★</b> 17-19 rue Jean-Baptiste Dumas - 75017 Paris Tel.: + 33 1 45 72 44 51 - Fax: + 33 1 40 68 90 36 <a href="http://www.hotelmagellan.com">www.hotelmagellan.com</a> - M° Porte de Champperret - line 3	€117 / €140	25 May
<b>Campanile Berthier ★★</b> 4 boulevard Berthier - 75017 Paris Tel.: + 33 1 46 27 10 00 - Fax: + 33 1 46 27 00 57 <a href="http://www.campanile-berthier.com">www.campanile-berthier.com</a> - M° Porte de Clichy - line 13	€ 97	24 May

\*All prices include breakfast and VAT

\*\*The booking deadline is given for each hotel. After these deadlines, we cannot guarantee room availability.

## Cancellation

Each hotel has a different cancellation policy and will inform participants of penalties in case of no show or cancellation.

*With the support of:*



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