

Petroleum and Petrochemical Engineering PPC

What is the meaning of upstream and downstream?

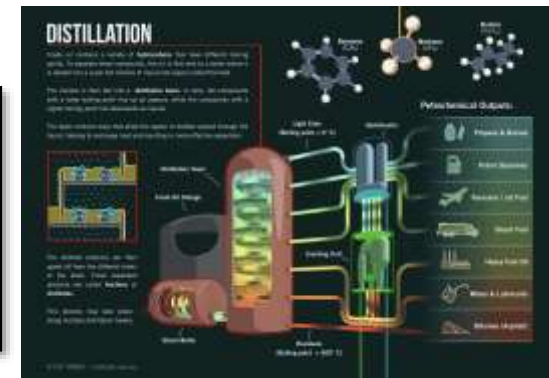
The oil and gas sector is divided into two main components

Upstream Sector

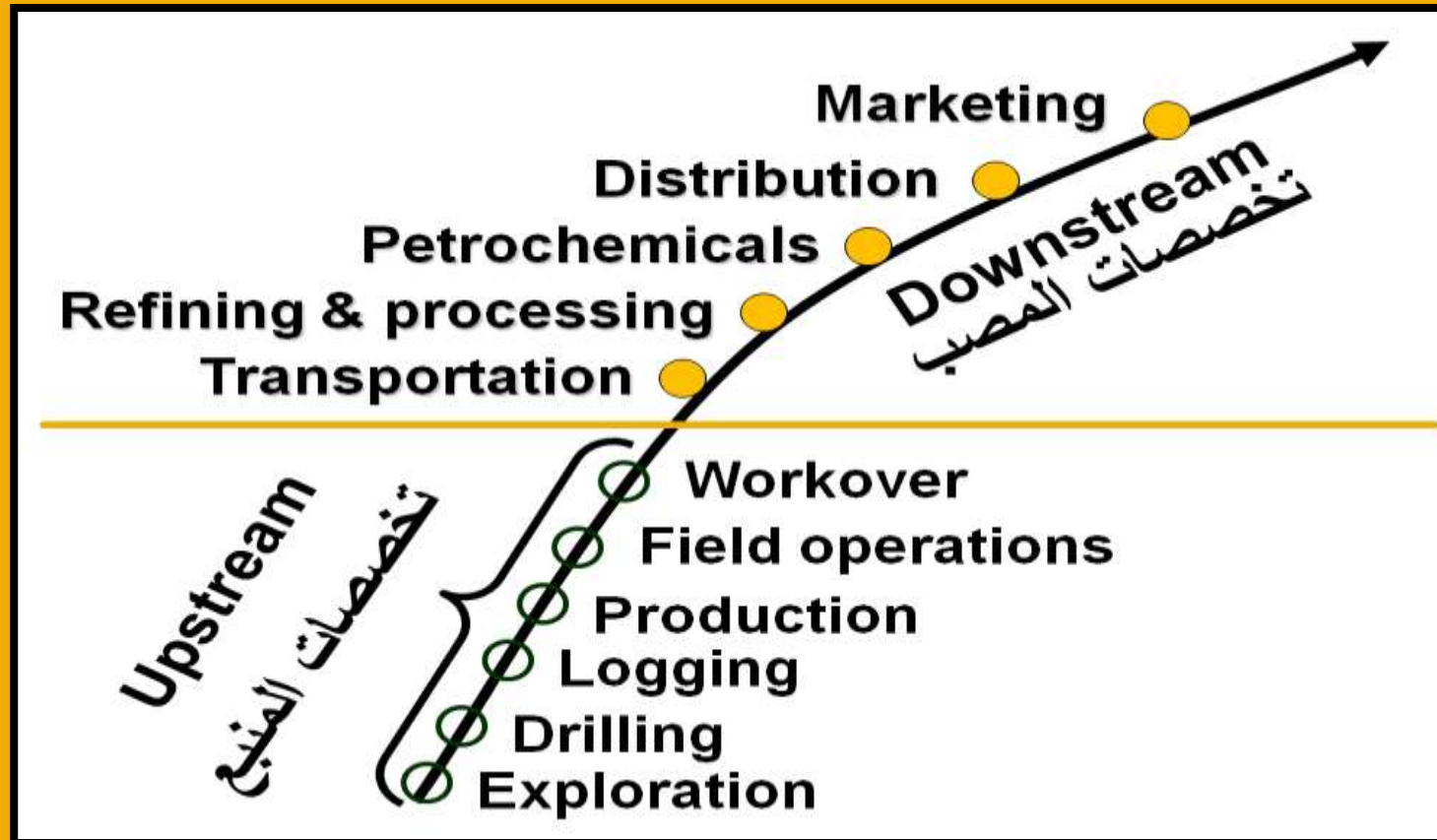
The upstream is usually known as the exploration and production (E&P) sector. It includes the searching for potential underground or underwater oil and gas fields, drilling of exploratory wells, and subsequently drilling and operating the wells that recover and bring the crude oil and/or raw natural gas to the surface

Downstream Sector

The downstream sector includes oil refineries, petrochemical plants, and touches every province and territory-wherever consumers are located-and provides thousands of products such as gasoline, diesel, jet fuel, heating oil, asphalt, lubricants, synthetic rubber, plastics, fertilizers, antifreeze, pesticides, pharmaceuticals, natural gas and propane.



Petroleum Related Operations



EXPLORE

DEVELOP

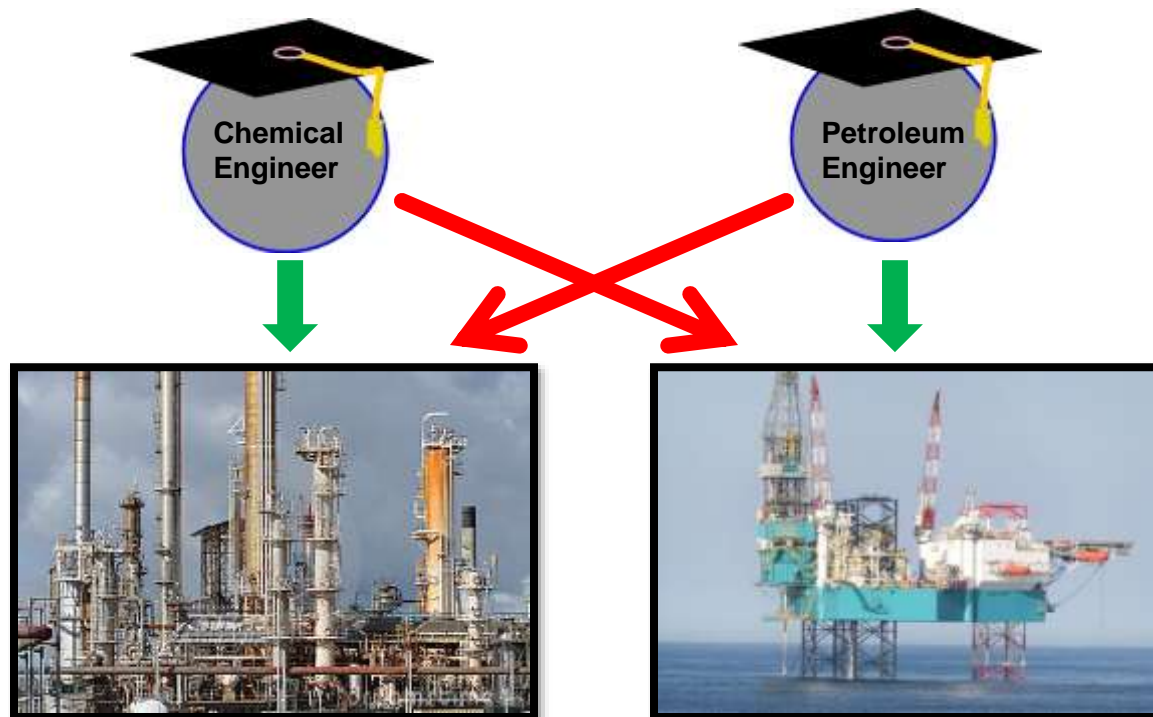
PRODUCE

REFINE

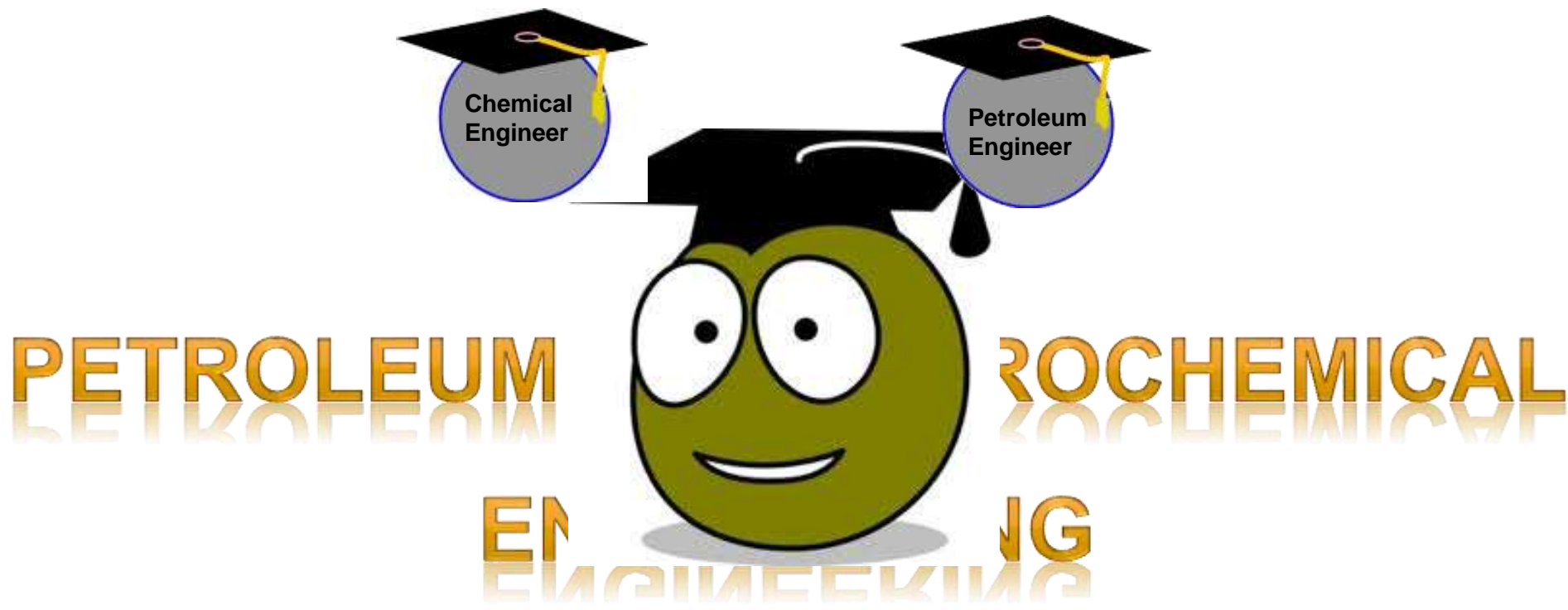
RETAIL



- Usually chemical engineering graduates work in the downstream sector while petroleum graduates work in the upstream sector.
- In many cases, graduates from the petroleum engineering department had to assume responsibilities in refining and petrochemical plants while many chemical engineers have been assigned jobs in the prospecting and oil field operations.



- This situation called for the formation of a hybrid engineer combining the qualifications of both disciplines.



البتروال

EGYPT OIL & GAS NEWSPAPER

الإبحر الأحمر على خريطة الاستثمار البتروالي

اتفاق دعم الشروات التعدين العربية

EGYPT OIL & GAS NEWSPAPER

Official Publication EGYPS

February 2019 - 44 Pages - Issue 122

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EGYPS NEWS EGYPT PETROLEUM SHOW

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Official Publication EGYPT OIL & GAS

SHOW DAILY DAY 2

EGYPS OPENING CEREMONY HIGHLIGHTS EGYPT'S TANGIBLE SUCCESSES

EGYPT OIL & GAS NEWSPAPER

February 2019 - 44 Pages - Issue 122

UPSTREAM TECHNICAL CONVENTION EMBARKING ON A NEW JOURNEY OF OVERCOMING CHALLENGES AND CONTRIBUTING TO NEW SUCCESSES

THE MARKET DYNAMICS OF EGYPT'S PETROCHEMICAL INDUSTRY

AN INTERVIEW WITH RAMI GASEM

ICGS AND INVESTMENT

ZOHR

EGYPS NEWS EGYPT PETROLEUM SHOW

11-13 February 2019

Official Publication EGYPT OIL & GAS

EGYPS 2019: DELIVERING THE ENERGY NEEDS OF TOMORROW

NEW EXPLORATION ACTIVITIES IN THE REGION

WE ARE CURRENTLY IMPLEMENTING THE PETROLEUM SECTOR'S MODERNIZATION PROJECT...

MR. EXCELLENCY FARUK EL MELLA

البتروال

2018

عام التميز والانطلاق

إعلان القاهرة لتأسيس منتدى غاز شرق المتوسط

Petrochemical Industries in Egypt

According to OAPEC (Organization of Arab Petroleum Exporting Countries): Exports of Egyptian Petrochemicals has increased by 26%.

- New petrochemical Project in Egypt:



Petroleum Fields in Egypt

Atoul Field

Zohr Field

Nour Field



Petroleum and Petrochemical Engineering Program

The Petroleum and Petrochemical Engineering is a discipline that integrates knowledge and skills required for both upstream and downstream industries of oil and gas. Graduates will major in either of the following:

- Petroleum Engineering (PPC-P), Upstream.
- Petrochemical Engineering (PPC-C), Downstream.



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Main Coordinator



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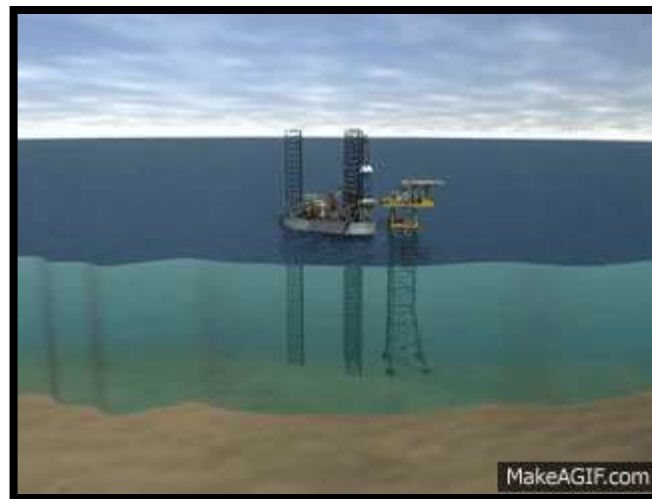
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Companies Related to Upstream

- Service Companies : **Schlumberger**, **BAKER HUGHES** a GE company
- Exploration and Production (E&P) Joint venture:



- Drilling Contractor: **EDC** (EGYPTIAN DRILLING COMPANY), **ECDC**, **SinoTharwa Drilling**, **Weatherford**



Companies Related to Downstream

■ Refineries:



■ Natural Gas Processing:



■ Petrochemicals:



■ Distributors:



■ Design: **Enppi**



New Fields for Petrochemical Engineers

- Today, in addition to traditional examples, there are increasing opportunities in biotechnology, pharmaceuticals, electronic device fabrication and materials, as well as in environmental engineering.
- Petrochemical engineering is essential in these and other fields whenever processes involve the chemical or physical transformation of matter.



صافي

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الزيت مش مكانه الحوض..

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GGF

Forbes, Middle East 2016

20 Most Promising Egyptian Startups



مَا تُعَلِّمُهُ!

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ما تقضيهِ صيفك في القهوة/السراير/الساحل و بس.. تعالى الترب في تجدد و خللي صيفك مليان تجارب و تحديات و قصص تفكر ها لما تخرج.. قدم دلوقتي لانك مش هتتعلم بس كمان هتعمل فلوس!

قدمو دلوقتي و متكلوش! <https://goo.gl/forms/2i2FrD6GXaXKRUL33>

الترب كده هيبقى على ال Business Development و هتتعلم من فريق تجدد و Professionals في المجال هتعلن عنهم قريب.....
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Industrial Training



**Mahmoud
Hossam
(E-Lab)**



**Noura Zidan
(Agiba)**



**Omar Ezzat
(GUPCO)**



**M Sobhy
(Schlumberger)**



**Ali Hatem
(Weatherford)**



**Karim Adel
(EDC)**

Abroad Industrial Training





Azerbaijan, 2015



Waste Management & Sustainable Development- 2013



Workshops

Michelangelo Workshop- Rome- 2015



Field Trip

Schlumberger



Student Activities



Annual Student Energy Conference (ASEC)- University of Zagreb



SPE - Croatia - 2014



East Meets West Conference- AGH University of Science and Technology



SPE - Poland - 2015



PETRO-GATHERING: CHINA INTERNATIONAL STUDENT PETROLEUM FORUM- China University of Petroleum



SPE - China - 2015

PetroLaysia (Malaysia Trip) - Universiti Teknologi Malaysia (UTM)



SPE - Malaysia - 2015

ADIPEC "ABU DHABI INTERNATIONAL PETROLEUM EXHIBITION & CONFERENCE"



SPE – Abu Dhabi - 2018

Poltava National Technical Yuri Kondratyuk University



SPE – Poltava, Ukraine- 2019

IPTC "INTERNATIONAL PETROLEUM TECHNOLOGY CONFERENCE"



SPE – China- 2019

Petroleum Arabian Conference and Exhibition (PACE)- 2018



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Petroleum Arabian Conference and Exhibition

21st, 22nd and 23rd of March, 2019

The American University in Cairo

Promotional Partner

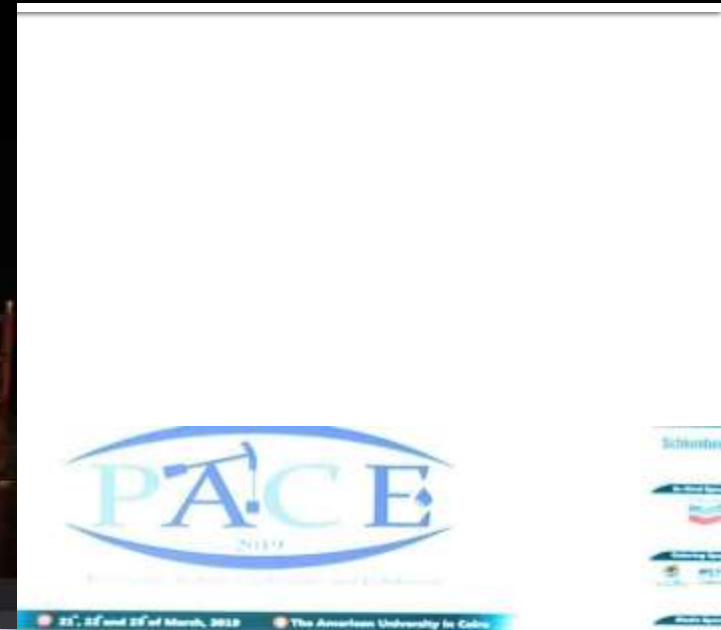
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Petroleum Arabian Conference and Exhibition (PACE)- 2019



Opening & Panel Discussion



Closing



SPE CUSC



Cairo University
SPE Student Chapter

SPE CU'19 UpperBoard Our New President and his Vice

Congratulations!

Khalid Mostafa
Vice President



Mohamed Sobhy
President

Honeywell UOP Scholarship/ Internship 2016



Honeywell UOP Scholarship/ Internship 2017



Honeywell UOP Scholarship/ Internship 2018





PEPSICO

CHANGE THE

GAME

COMPETITION





EGYPT
OIL & GAS
NEWSPAPER

SERVICE CONTRACTS
FOR MATURE FIELDS
REDEVELOPMENT:

A NEW WAY OUT

ENHANCING PRODUCTION RECOVERY IN
BROWNFIELDS USING 4D SEISMIC SURVEYS

PRE-STACK, POST-STACK INVERSION IN
BROWNFIELDS

LOOKING AT BROWNFIELDS FROM AN
ECONOMIC PERSPECTIVE



PROUDLY THE OFFICIAL PUBLICATION



EGYPS
EGYPT PETROLEUM SHOW
11 - 13 February 2020
Cairo Convention Center

- Schlumberger conducted a competition on “Unconventional Solutions to Overcome Production Decline Challenges”. Out of eight competing teams, with each comprising of three college seniors, two were chosen after presenting their ideas. **Mohamed Sobhy**, **Ahmed Azab**, and **Ahmed Farhat** were granted summer internships.

Graduates of 2017



Graduates of 2017



Graduates of 2018



Graduated of 2018



Pollutant
Inventory
Project



Chem
Tech



Finally Remember



There is no guarantee for students getting out of college, whether they major in art history or petrochemical engineering.

They will face challenges in the road ahead of them.

If they are flexible in where they live, what they do, and their desire to learn and grow in new knowledge they will have a good career.

An offshore oil rig is shown in the lower-left portion of the image. It features a complex steel structure with a prominent derrick and various platforms, situated on a blue sea under a clear sky. The rig is supported by several legs extending into the water.

**THANK YOU FOR
YOUR ATTENTION**