

Global Workforce

Capability and Capacity
International Petroleum Technology Conference

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Q. What does the future hold for Young Professionals?

A. – Unlimited opportunity

- The world demands more oil and gas
 - We are a growing industry!
- The oil and gas business is 'high tech'
 - We can offer grand challenges!
- The oil and gas business is global!
 - Do you want to see the world?



The oil and gas industry is a growing business

- Global energy use will increase by 45% between 1980 and 2030
- Hydrocarbon use will increase by 29% between 1980 and 2030
- Energy Provided by Hydrocarbons
 - 90% in 1980
 - 83% in 2010
 - 80% in 2030



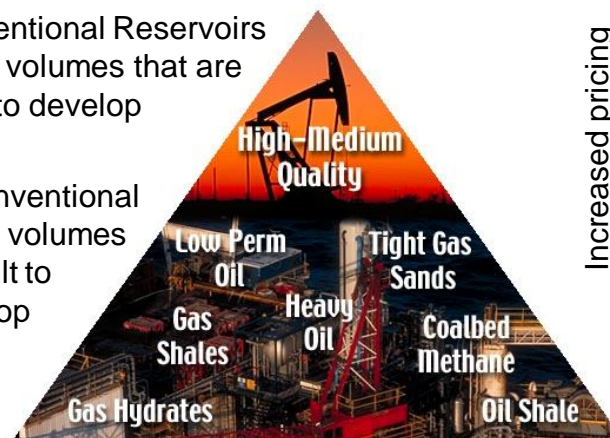
Source EIA

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The Resource Triangle holds the key

Conventional Reservoirs
Small volumes that are
easy to develop

Unconventional
Large volumes
difficult to
develop



Increased pricing
↓
Improved technology
↓



Opportunities for Young Professionals

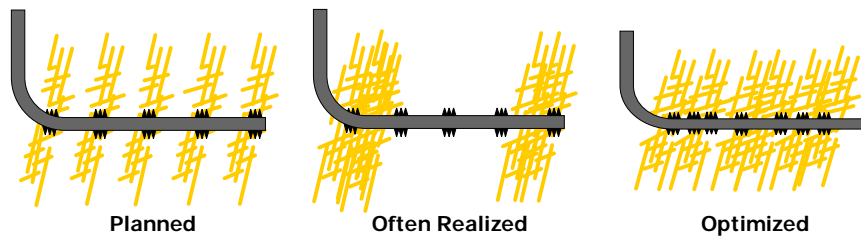
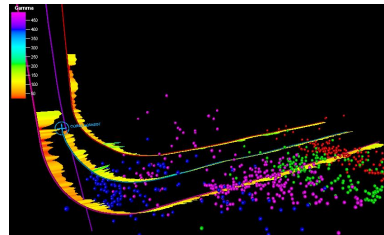
- The workforce is graying
- New employees have an opportunity to **move up fast** in their organization
- Employment in our industry will include producing more energy to increase standard of living while working to protect the environment

It is an excellent opportunity for Young Professionals to enter the industry



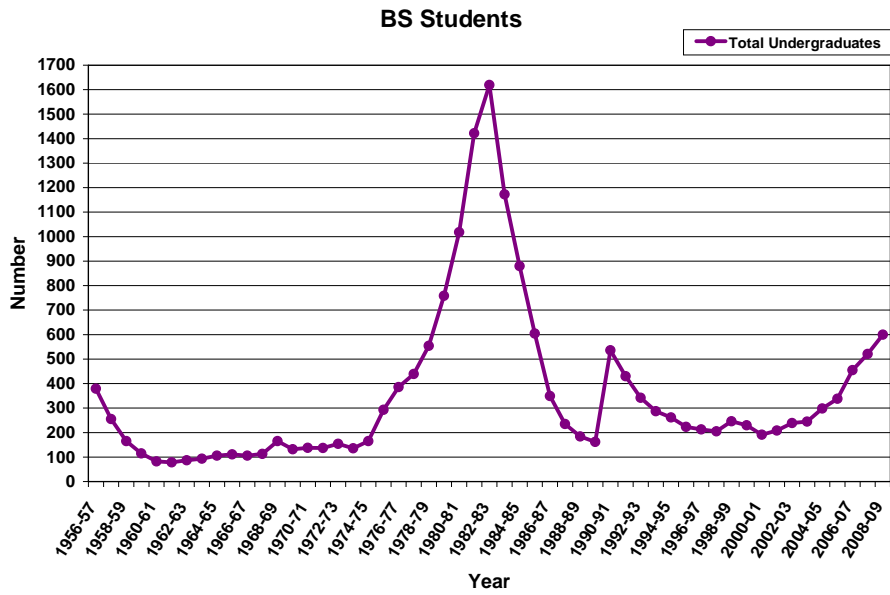
We are a very high technology business

- Maximize productive surface area
- Perforation placement is critical
- Identification of sweet spots
- Real time monitoring and control



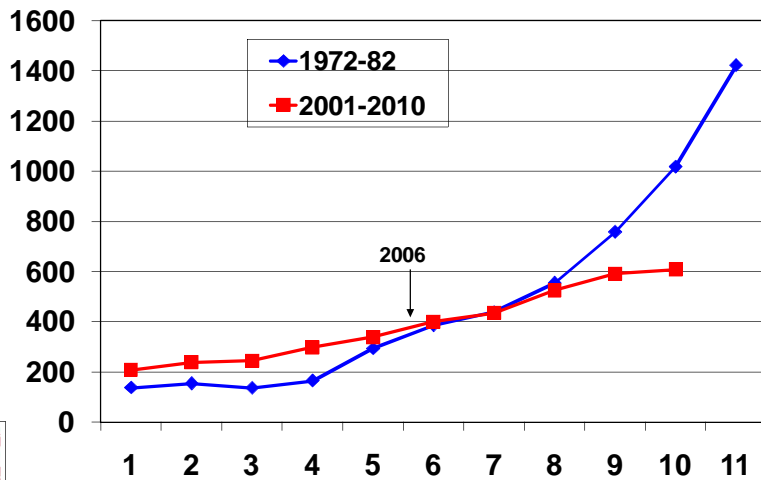
Courtesy of Schlumberger

Enrollment In PE at Texas A&M University in CS



Current Enrollment of PE Undergraduates

We are controlling growth this time



Industry Support of Petroleum Engineering and Geoscience is Vital to our Success

- Industry support involving
 - Hiring our graduates for permanent jobs
 - Hiring our students for summer jobs, and
 - Working with faculty on research
- We have a lot of international MS and PhD students who can work globally
- Our students are trained to 'hit the ground running' – to produce oil



The Critical Time is Now
We need to place the
Graduates in 2010

Thank you

