

SPE- GCS

January 25
2006



Take Charge of Your Career

SPE-GCS Career Management

PRESENTED BY:

Susan Howes
Engineering Recruiting
Training Manager

Topics from SPE chair columns

- ▲ Ethics – 7/04
- ▲ Strategic Plan Development – 8/04
- ▲ Leadership – 9/04
- ▲ Recruiting Engineers for Tomorrow – 10/04
- ▲ Succession Planning is Key to Success – 11/04
- ▲ Long Range Plan – 12/04
- ▲ New Year Execution Plans – 1/05
- ▲ Mentoring – 2/05
- ▲ Communities of Practice – 3/05
- ▲ Build Relationships -4/05
- ▲ Celebrate Success – 5/05
- ▲ Service – 6/05

Society of Petroleum Engineers
Gulf Coast Section
NEWSLETTER

January 2006



General Meeting
Joint Meeting with the
International Study Group

The Oil Industry in Russia

Speakers: Alexander S. Dyachenko
Moscow, Russia

Date & Time: 11:00 a.m. to 12:00 p.m.
Houston, January 9

Location: Petroleum Club
400 West Street

Cost: \$20 per attendee (pre-registered)
\$30 for non-attendees and students

Registration: www.spe.org

Deadline: Tues, Thursday, January 3

Please register in advance. There are no refunds on a general meeting. Space may be limited so register as early as possible.

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The United States and China are two major industrial markets that offer global demand for hydrocarbons, and Russia is one well positioned to serve both of these markets. The Texas Petroleum Chapter and various Houston area non-major organizations to meet U.S. needs and ensure Russia can supply China. This presentation will analyze Russian production levels, which have shown a 10% growth in oil production per year during the past 3 years. This growth is sustainable and is expected to increase and produce in the next Russian years.

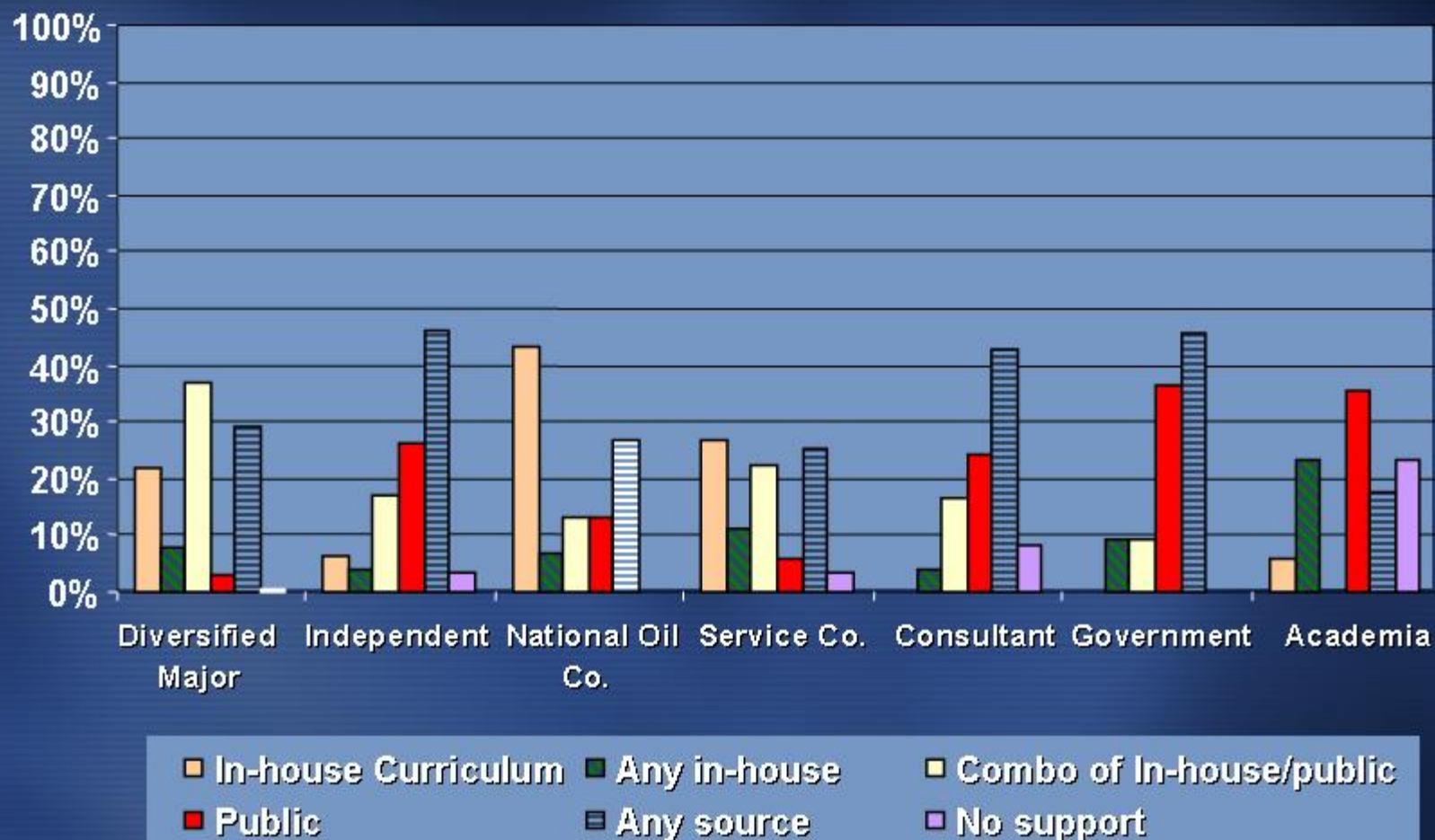
The Russian oil industry has several major infrastructure programs underway, and there are many opportunities for investment, which could fuel a 10% growth in the related services market. The Economics Minister's budget, which includes how much capital is needed to grow a 10% in the market, will be discussed and compared to other producing regions in the world. The presentation will also address operating expenses and revenue expansion costs in Russia.

Alexander Dyachenko is a chief engineer for Sibneft, the 10th largest integrated oil company in Russia. He is responsible for planning and development, including reserves, planning, exploration activities, and field/development engineering and technology. Throughout his career Dyachenko has worked in research and development, in consulting, in the service industry, and for an operator in Russia and internationally. Before joining Sibneft, he worked for Schlumberger on a gas processing drilling project in Houston to service Statoil. Dyachenko holds a Ph.D. degree in petroleum engineering from Texas A&M University and advanced degrees in physics and mathematics from the National Institute of Physics and Technology.

Taking charge of your own development

- ▶ **Formal Training**
- ▶ **On-the-job Experience**
- ▶ **Mentoring**

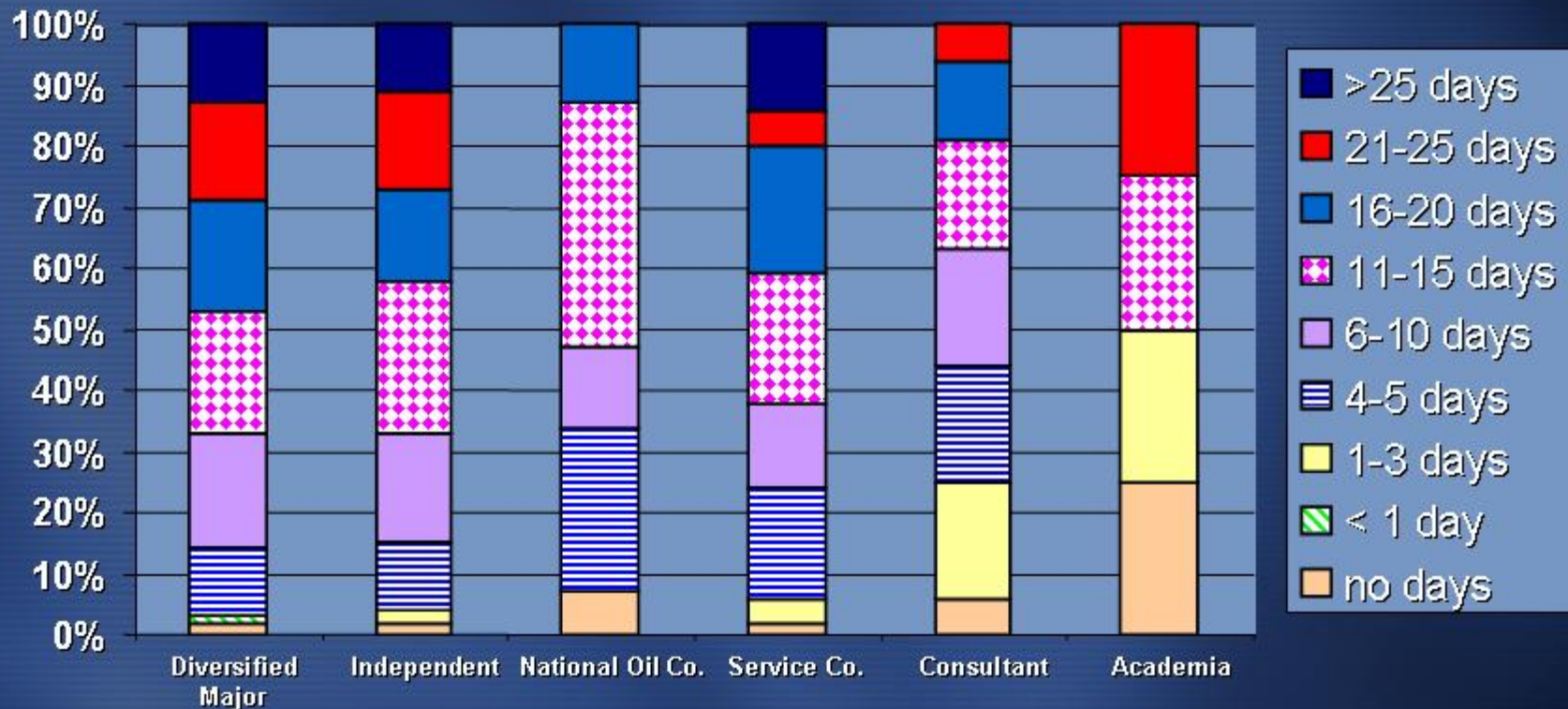
Which alternative best describes the source (s) from which you select your training?



*SPE Colloquium for Petroleum Engineering Education August 2004 – Jill Evans and Kelda McFee

Over the past 12 months, how many days did you spend in training classes?

Respondents with 2 to 5 years experience



*SPE Colloquium for Petroleum Engineering Education August 2004 – Jill Evans and Kelda McFee

Building an competency database

Reservoir Engineering

1.1	Fluid Properties
1.1.1.	Gas Properties
1.1.1.1.	Physical Properties
1.1.1.2.	Z Factor
1.1.1.3.	Gas Formation Volume Factor
1.1.1.4.	Viscosity
1.1.1.5.	Compressibility
1.1.2.	Oil Properties
1.1.2.1.	Specific Gravity / API Gravity
1.1.2.2.	Bubble Point Pressure
1.1.2.3.	Oil Formation Volume Factor
1.1.2.4.	Solution Gas-Oil Ratio
1.1.2.5.	Viscosity
1.1.2.6.	Compressibility
1.1.2.7.	Density
1.1.3.	Water Properties
1.1.3.1.	Analysis / Composition
1.1.3.2.	Water Formation Volume Factor
1.1.3.3.	Viscosity
1.1.3.4.	Compressibility
1.1.3.5.	Total Solids
1.1.3.6.	Solubility of Natural Gas in Water
1.1.4.	Phase Behavior
1.1.4.1.	Composition of Petroleum Fluids
1.1.4.2.	Phase Diagrams
1.1.4.2.1.	Generic Phase Envelope
1.1.4.2.1.1.	Bubble Point, Dew Point
Pressure	
1.1.4.2.1.2.	Critical Point
1.1.4.2.1.3.	Cricondenbar
1.1.4.2.1.4.	Percent Liquid Lines
1.1.4.2.2.	Five Main Fluid Systems
1.1.4.2.2.1.	Dry Gas
1.1.4.2.2.2.	Wet Gas
1.1.4.2.2.3.	Retrograde Condensate
1.1.4.2.2.4.	Volatile Oil (High Shrinkage Oil)
1.1.4.2.2.5.	Black Oil (Low Shrinkage Oil)
1.1.1.1.	Gas-Liquid Equilibria
1.1.1.1.1.	Equilibrium Ratio
1.1.1.1.2.	Flash and Differential
1.1.1.1.3.	Separator Calculations
1.1.1.2.	Equation of State

Production Engineering

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Drilling Engineering

1.1 Well

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1.1 Gas

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Facility Engineering

Building an engineering curriculum

2005 In-house Engineering Course Catalog



- Technical Training taught by Anadarko Employees
- Technical Training taught by Outside Instructors
- Training including Software taught by Anadarko Employees
- Training including Software taught by Outside Instructors
- OnCourse - Anadarko Leadership and Business Training

Taking charge of your own development

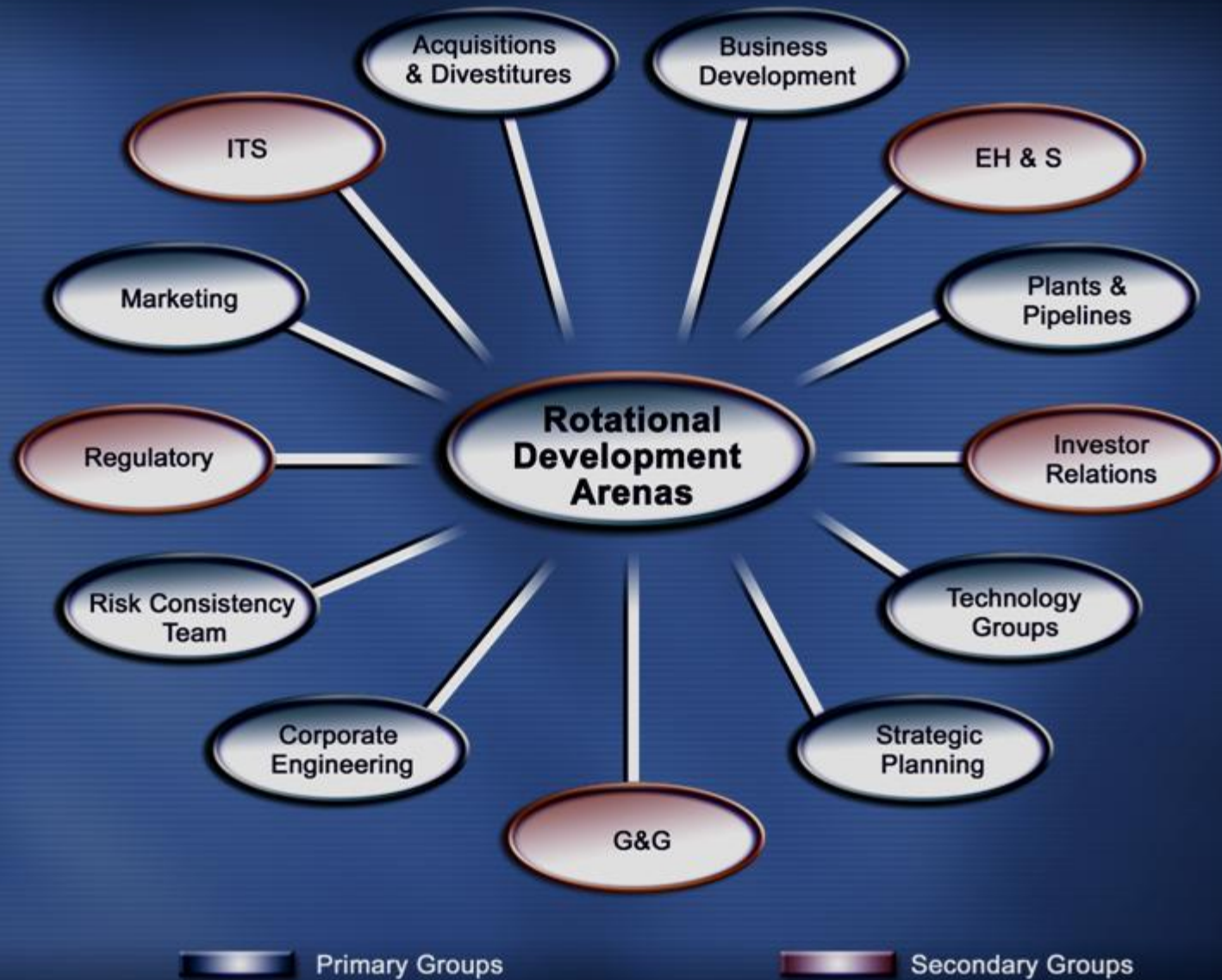


- ▲ Business Acumen
- ▲ Managing Relationships
- ▲ Time Management
- ▲ Management
- ▲ Project Management
- ▲ Leadership
- ▲ Strategic Management
- ▲ Team Skills
- ▲ Communication Skills
- ▲ Negotiating Skills
- ▲ Presentation Skills
- ▲ Training Skills

APC professional growth opportunity matrix

PETROLEUM ENGINEERING JOB DESCRIPTION	PLAY TYPE	GEOGRAPHIC AREA																		
		East Texas	Texas Gulf Coast	North LA / EGC	Mid Continent	Oklahoma	Permian	Rockies	Gulf of Mexico	Alaska	Other US	Edson	Fort Saint John	Grande Prairie	Medicine Hat	Algeria	Qatar	Venezuela	New Ventures	Other International
DRILLING	Shallow Gas																			
	Conventional O&G																			
	CBM																			
	Fractured RSV																			
	EOR																			
PRODUCTION	Tight Gas																			
	Well Planning																			
	Drill Optimization																			
	Specialty Drill																			
	Form Evaluation																			
	Completion Design																			
	Comp. Equipment																			
	Stimulation																			
	Field Surveillance																			
	Surface Equipment																			
RESERVOIR	Artificial Lift																			
	Applied Rev Eng																			
	Economics																			
	Form Eval/PTA																			
	RSV Simulation																			
	EOR/ Waterflow																			
	Specialty Situations																			

APC development job opportunities



Extra-curricular leadership & mentoring opportunities



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2006

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