

Events will be conducted in the Bavendick Stateroom located at BSC in the National Energy Center of Excellence, 1200 Schafer St., except for the refinery tour on Tuesday and the oil patch tour Wednesday. On Thursday, teachers will have the choice of touring the Bismarck Career Academy or the Gateway to Science.

MONDAY, JUNE 27

Bavendick Stateroom

7:45 a.m. Check-In Opens – Teachers take Pre-Test

8:15 a.m. Opening Session – Welcome, introductions, agenda and credit registration
Ron Ness, President, North Dakota Petroleum Council

9:00 a.m. The History of North Dakota's Black Gold – 20th Annual Oil Trivia Bowl
Katie Haarsager, North Dakota Department of Mineral Resources
Sydney Arends, North Dakota Petroleum Council

9:45 a.m. Break

9:50 a.m. Energy and You (What is energy and how do we use it?)
Kathy Neset, Neset Consulting

10:15 a.m. Bakken 101 Overview of ND as a top national/world producer & key terminology
Kathy Neset, Neset Consulting

10:30 a.m. Petroleum Geology – Where is the oil and gas, and how do we know where to find it?
Rich Suggs, Petroleum Geologist, North Dakota Oil and Gas Division

12 p.m. Lunch is served

12:30 p.m. Physics in Petroleum – How do we use Math, Physics and Computers to Search for Oil?
Lynn Helms, Director, North Dakota Dept. of Mineral Resources

1:30 p.m. Petroleum Engineering / Fracing 101– Drilling, Fracing and Production: How it works
Justin Kringstad, Director, North Dakota Pipeline Authority

2:30 p.m. Break

3:00 p.m. Classroom Activities – Hands-on Activities including Industrial Electronics, Reclamation, Process Plant Construction, and Frac Fluid
Kent Ellis, ND Energy Education Coordinator, Bismarck Schools/Aurora Energy Solutions

4:30 p.m. Black Gold Drilling Game Day 1 & Opening Day Social (Appetizers and Beverages)
Kent Ellis, Energy Education Coordinator, ND Energy Education

5:30 p.m. Day 1 complete

TUESDAY, JUNE 28:

Tour Day

****Please note that tour times and arrival time back in Bismarck may be subject to change based on road conditions or construction and other unforeseen circumstances.***

6:30 a.m. Breakfast – Day 1 Summary and Evaluations – Bavendick Stateroom

7 a.m. Bus departs for North Dakota's Oil Patch

7:10 a.m. Partnerships with Industry
Speaker TBD

Circa 9:30 CST/8:30 MST Arrive Drill site

(CLR's current rig sites are all north of Killdeer) Orientation and depart for rig

Break into three or four groups for rotations:

- Well Pad Construction (CLR Rep)
 - Location Selection
 - Leasing
 - Environmental Protections
- Drilling & Completions
 - Equipment On-Site
 - Drilling Process
 - Personnel Run-Down
 - Geology/Mudlogging (Kathy or CLR rep?)
- Production
- Reclamation?

Circa 12:30 CST/11:30 Depart for State Park (inclement weather contingency is Bear Creek Gas Plant

12:50 p.m./ Lunch at State Park sponsored by Arriba Production Services/Bakken Supply – Speaker TBD
11:45 MST

1:30 p.m. CST Depart for Bear Creek Gas Plant

1:45 p.m. CST Arrive Bear Creek Gas Plant – Presentation/Tour

2:45 p.m. CST Depart for Bismarck

Circa 5:15 p.m. Arrive Bismarck

WEDNESDAY, JUNE 29

Meet in the Bavendick Stateroom for breakfast prior to the Marathon Petroleum Refinery Tour

- 7:00 a.m. **Breakfast** – Day 2 Summary and Evaluations
- 7:30 a.m. **Load bus and depart for Marathon Petroleum Refinery**
- 8:00 a.m. **Refinery Bus Tour** – Return to BSC Campus
- 9:15 a.m. **Refining 101 – Turning crude oil into gasoline | Gasoline Marketing- How is gas priced?**
Ron Day, Consultant, Marathon Petroleum
- 10:30 a.m. **Break**
- 10:45 a.m. **Moving oil and natural gas from the well site to the consumer**
Justin Kringstad, Director, North Dakota Pipeline Authority
- 12:00 p.m. **Lunch is served**
- 12:30 p.m. **The Energy Reality: Fossil Fuels in Our Future**
Speaker TBD: Energy and Environmental Research Center (EERC), Grand Forks
- Overview of future energy needs;
 - Comparison of energy resources;
 - Oil will remain predominant (EIA and IEA studies)
 - If oil is here to stay, how are we addressing challenges – spills, flaring, climate change, etc.
- 1:45 p.m. **Break (5 min.)**
- 1:50 p.m. **EGS: Environmental, Social, and Governance**
Preston Page, Dakota Energy Advisors
- 2:30 p.m. **Classroom Activities: Black Gold Drilling Game Day 2:** Kent Ellis
Enbridge Activity: Wendy Pank, Community Engagement Advisor, Enbridge (Canada’s largest natural gas distribution provider)
- 3:30 p.m. **Energy Classroom Resources:**
- ENERGY: Powered by North Dakota – Curriculum and Resources for ND Studies and Beyond***
Alicia Uhde, Director, Great Plains Energy Corridor at BSC
- 4:00 p.m. **Break**
- 4:15 p.m. **Virtual Reality Career Exploration**
Matt Chaussee, Career View XR & BeMoreColorful Founder/CEO
- 4:45 p.m. **North Dakota Petroleum Foundation- Building Relationships and Outreach in the Bakken**
Tessa Sandstrom, Executive Director, North Dakota Petroleum Foundation
- 5:15 p.m. **Education Resources Review**
- 5:30 p.m. **Day 2 complete**

THURSDAY, JUNE 30

Bismarck Public Schools Career Academy on the Bismarck State College Campus, Multi-Purpose Room B

8 a.m. Breakfast

8:15 a.m. Ron Ness: Announcements & class requirement review (paper; CEUs, etc.), final questions

8:30 a.m. Energy and Industry Career Choices

Kent Ellis, ND Energy Education Coordinator, Bismarck Schools/Aurora Energy Solutions

9:15 a.m. Careers for the Oil & Gas Industry Panel

Moderator: Katie Haarsager, Public Information Officer, ND Dept. of Mineral Resources

Speaker: 9:15-9:45: Mary Ann Whetzal, Liberty Oilfield Services Recruiter

Panelists: 9:45-10:45: panel discussion with Mary Ann and others:

Tanner Hopfauf, ND Energy Services –*experience as someone who wanted to stay and work here in ND.*

Kara Glenn, Director of Business Development, Silver Fox Pipeline & Facilities Services –*woman in welding; her experience in military & role as trainer/mentor through Trade Ready.*

TBD:

10:45 a.m. Break

11:00 a.m. Tours – Break Out to Bismarck Career Academy or Gateway to Science (max 30)

12:30 p.m. Dismiss