

North Dakota Petroleum Council Teacher Education Seminar
Bismarck State College
June 18-21, 2018

➤ *Events will be conducted in the “Bavendick Stateroom” located at Bismarck State College in the National Energy Center of Excellence building, except for the oil patch tour on Tuesday and the refinery tour on Wednesday. Thursday morning we will meet at the Heritage Center in the “old” lobby and remain at the Heritage Center for the rest of the seminar.*

Monday, June 18

- 8:00 a.m. Registration – Bavendick Stateroom (coffee and rolls)
- 8:30 a.m. Opening Session – Welcome, introductions, agenda and credit registration
Ron Ness, President, North Dakota Petroleum Council
- 9:00 a.m. Bakken 101 – Ron Ness, President, North Dakota Petroleum Council
- 9:30 a.m. The History of North Dakota’s Black Gold – 16th Annual Oil Trivia Bowl
Alexis Baxley & Brittany Jasper, North Dakota Petroleum Council
Alison Ritter, North Dakota Dept. of Mineral Resources
- 10:30 a.m. Discussion and break
- 10:45 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
- 12:15 p.m. Lunch is served
- 1:00 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
- 2:15 p.m. Discussion and break
- 2:30 p.m. Petroleum Engineering / Fracing 101– Drilling, Fracing and Production: How it works
Justin Kringstad, Director, North Dakota Pipeline Authority
- 3:45 p.m. Break
- 4:00 p.m. *ENERGY: Powered by North Dakota* – Curriculum and Resources for North Dakota Studies and beyond
Emily Cash, Director, Great Plains Energy Corridor at BSC
- 4:15 p.m. Classroom Activities – Frac Fluid & NDIC Well Casing/Cementing Model
Kent Ellis & Carla Palczewski
- 5:30 p.m. Black Gold Mixer – Bavendick Stateroom (pizza and root beer floats)
Bakken Drilling Competition – Kent Ellis & Carla Palczewski
- 7:00 p.m. Day one complete

Tuesday, June 19

- 6:30 a.m. Breakfast – Day 1 Summary and Evaluations
- 7:00 a.m. Bus departs for North Dakota’s Oil Patch – Tour includes drilling rig, oil well, and reclaimed well site.
- Bus Trip North Dakota Geology – Rich Suggs
Careers in Energy – Kent Ellis
Carbon Sequestration – Video
Oil Production – Video
History of ND Oil Industry Fuel-less – Video
Operating on Federal Lands
- 6:00 p.m. Arrive in Bismarck – Day two complete

Wednesday, June 20

- 7:00 a.m. Breakfast – Day 2 Summary and Evaluations
- 7:30 a.m. Load bus to Tesoro Refinery
- 7:45 a.m. Bus departs for Tesoro Refinery
- 8:00 a.m. Refinery Bus Tour – Return to BSC Campus
- 9:15 a.m. Refining 101 – Turning crude oil into gasoline
Ron Day, Tesoro Petroleum Refinery
- 10:15 a.m. Break
- 10:30 a.m. Gasoline Marketing – How is gas priced?
Dave Froelich, Missouri Valley Petroleum
- 11:30 a.m. Moving oil and natural gas from the well site to the consumer
Justin Kringstad, Director, North Dakota Pipeline Authority
- 12:30 p.m. Lunch is served
- 1:15 p.m. North Dakota Oil Can! Building Relationships and Outreach in the Bakken
Tessa Sandstrom, NDPC Communications Manager
- 2:00 p.m. Energy and Industry Career Choices
Kent Ellis, Energy Career Awareness Partnership
- 3:30 p.m. Break
- 3:45 p.m. Workforce Issues & Needs Panel Discussion:
Moderator: Rob Lindberg, Bakken Backers
Panelists TBD
- 4:30 p.m. Careers for Women in the Oil & Gas Industry

Moderator: Tessa Sandstrom, Director of Communications, NDPC
Panelists TBD

5:30 p.m. Day three complete

Thursday, June 21 - We will be at the Heritage Center all day.

8:00 a.m. Heritage Center, Missouri River Event Center (breakfast quiche, muffins, fruit, juice)

8:15 a.m. Announcements & class requirement review

8:30 a.m. Meteorites and Impact Structures in North Dakota
Ed Murphy, ND State Geologist

9:45 a.m. Break

10:00 a.m. Geology and Paleontology of North Dakota
Jeff Person, Paleontologist, North Dakota Geological Survey

11:00 a.m. Daily Evaluation Due

11:05 a.m. Prehistoric Life of North Dakota Overview

11:15 a.m. Prehistoric Life Exhibits Tour

12:30 p.m. Seminar evaluation – seminar complete.