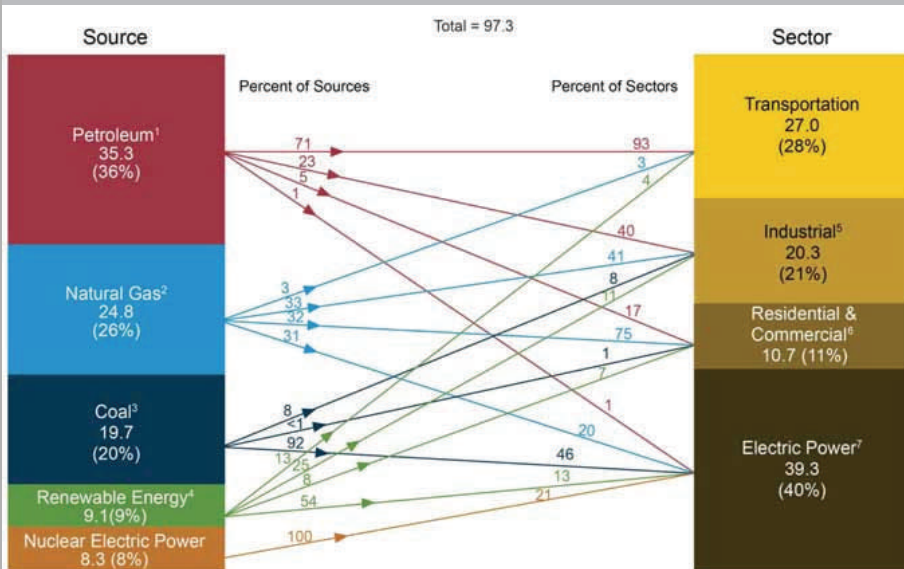


Energy & Security

H. Christopher Frey, NCSU, speaking on “Transportation Fuels and the Environment.”



H. Christopher Frey (PhD, Engineering and Public Policy, Carnegie Mellon University) is a Distinguished University Professor of environmental engineering in the Department of Civil, Construction, and Environmental Engineering at NCSU.

The U.S. transportation sector currently accounts for some 28% of U.S. energy consumption – and that figure has risen steadily since 1973. Around 80% of this energy is devoted to moving goods and people along local roadways and highways. Transportation energy is very largely derived from petroleum (93%) or natural gas (3%). These fuels have a detrimental effect on human health and the environment and play a key role in climate change: The EDF (2012) estimates that 65% of global warming pollution derives from energy generation. The problematic consequences of use of these fuels have led the US government, consumers and automakers to seek alternatives to gasoline powered vehicles, but these in their turn have downsides. At our next Monday Energy and Security Luncheon meeting, Dr. Chris Frey, an expert on air pollution emissions, prevention, and control, will speak about the energy and environmental implications of the use of bio-fuels for transportation. He will also discuss the use of electricity as a partial substitute for transportation fuels. The talk will be moderated by Dr. William Boettcher, NCSU Political Science, an expert on international security.

Monday, February 18
11:45 am - 1:30 pm
Room 129
1911 Building
NCSU campus

Luncheon Served

**Triangle Institute for
 Security Studies**

**Online Registration
 at www.tiss-nc.org**

TISS/NCSU Energy and Security Initiative

