

# 2011 Summer in Germany

## “Carbon and the Future of the World”

Carbon is the element of life—the chemical backbone for all essential biomolecules. This summer session in Germany will allow you to

explore the science and policy/politics of carbon through a combination of classroom instruction and field trips. Schloss Dyck is the ideal location for this program since Ger-



Schloss Dyck

many has pioneered important environmental programs and is a leader in carbon reduction, and the EU has experimented with cap and trade to control carbon emissions.



2010 Group in Nuremberg

Planned field trips include a visit to the CO<sub>2</sub> Storage Center in Ketzin near Berlin. Another trip will take students to Amsterdam and other Benelux cities to meet with climate activists and public officials. The program also includes interactions with German students as well as a workshop on intercultural communication and German culture.



Classroom

### Course Offerings

#### EPS 400/519, CHEM 471/545, GEOG 499.001: The Science of Carbon (3 credits).

Taught by Professor Tobias Fischer, Department of Earth and Planetary Sciences, [fischer@unm.edu](mailto:fischer@unm.edu)

Carbon-based fuels supply energy, new carbon-based materials advance technology, carbon-containing gases affect the Earth's climate and hydrocarbon spills affect the oceans. We will discuss topics including: the global carbon cycle and atmospheric carbon contents through geologic time; carbon gases and effects on global warming; anthropogenic carbon emissions; carbon sequestration, storage and monitoring; and hydrocarbons as fuels.

The material is covered in lectures complemented by group discussions and reading of relevant papers. Non-science majors will be introduced to the topic in an understandable manner and we will work our way up to the more complex issues of carbon in the Earth system. There will be sufficient time for questions, group work, and discussion. The classroom activities will be complemented by a field trip to the Center of CO<sub>2</sub> Storage in the town of Ketzin, Brandenburg near Berlin. This will offer the unique opportunity to visit an operating continental CO<sub>2</sub> storage facility. The research in the Ketzin facility focuses on the long-term and safe storage of CO<sub>2</sub> under ground. There will be opportunities to discuss the important issues of carbon storage with experts operating the Ketzin facility.



Entrance to the Castle

#### LAW 593.009, GEOG 499.009, ECON 395: The Legal Framework for Carbon Reduction (3 credits).

Taught by Professor Denise Fort, Law School, [fort@law.unm.edu](mailto:fort@law.unm.edu)

The control of carbon is one of the most vexing problems of our time. It is a rich area for students to explore because it illustrates how environmental problems can be approached at different levels of governance, and how some of the considerations affect each level of governance. The Copenhagen and Cancun conferences on climate change, the EU framework for climate, developments at a national level in the U.S. and in the Federal Republic of Germany, as well as measures being taken at the municipal level, provide a laboratory to discuss international law, the EU, and other systems of government. Litigation is also becoming a means of approaching particular dischargers, and the reaction of international and domestic tribunals will be discussed.

We will travel to Amsterdam and other Benelux cities to meet with climate activists, renewable energy proponents, and public officials. Our goal is to understand the European perspective on energy and climate and how Europeans view the evolving international situation.

#### UNM's Summer in Germany will allow you to:

- Transform your educational experience by traveling & studying in a foreign country;
- Immerse yourself in German language, culture & society;
- Understand the science and legal aspects of carbon control.

## “Carbon and the Future of the World”

### Program Fee

\$2,500 per student (estimate)

### Included in the program fee

Room/board (3 meals per day) at the Nikolauskloster & Schloss Dyck; local transportation & excursions; workshop on intercultural communication & local culture; two multi-day field trips to Berlin & Ketzin and Amsterdam & Brussels (incl. hotel & breakfast, guided tours); and guest lectures.



Nikolauskloster

### Not included in the program fee

UNM tuition (no reduced rates for senior citizens); airfare; passport fee; mandatory travel insurance (~\$35); optional ISIC student discount card (\$22); lunch/dinner during field trips; and personal expenses.

### Program Calendar

Arrive Düsseldorf on Sunday, June 5, 2011  
EPS 400/519, CHEM 471/545, GEOG 499.001

Monday, June 6 — Friday, June 17, 2011

Includes excursion to Berlin & Ketzin  
LAW 593.009, GEOG 499.009, ECON 395

Monday, June 20 — Friday, July 1, 2011

Includes excursion to Amsterdam & Brussels  
Depart Schloss Dyck on Saturday July 2, 2011

### Eligibility

Eligible participants should be full-time students enrolled at a NM college or university. NO KNOWLEDGE OF GERMAN REQUIRED.

### Application Process & Deadlines

Application Deadline: Friday, March 11, 2011  
Initial deposit of \$1,000 due by April 1, 2011 (includes non-refundable \$100 application fee)  
Final balance of \$1,500 due by May 2, 2011

### International Scholarship Deadlines

Regents' Grants (OIPS): Tuesday, March 1, 2011  
ISI Summer Scholarships: Tuesday, March 1, 2011

## REASONS TO STUDY ABROAD

- Broaden your horizons
- Explore another culture and see the world from a different perspective
- Enhance your resume
- Increase your earnings potential
- Pay UNM tuition and earn resident credit (financial aid and scholarships available)



Schloss Dyck 2010 Group

## “Carbon and the Future of the World” Summer 2011



### Earn Six Credits at a Historic Castle near Düsseldorf, Germany

#### Taught by:

Tobias Fischer, Associate Professor,  
Earth & Planetary Sciences  
Denise Fort, J.D., Professor, Law School

For more information contact Kathryn Padilla  
505-277-2613 or [katpad@unm.edu](mailto:katpad@unm.edu)

#### Offered by:

The University of New Mexico  
International Studies Institute, College of Arts & Sciences  
[www.unm.edu/~isi](http://www.unm.edu/~isi)

Financial support from the Office of the Provost is gratefully acknowledged.

