



SMU Energy, Environment, and Natural Resources Colloquium*

Moody Auditorium, Frances Anne Moody Hall

SMU, Dallas, TX

Friday, May 3, 2024

8:30 am - 5:00 pm

SMU Dedman School of Law

Huffington Dept. of Earth Sciences, SMU Dedman College of Humanities and Sciences

Civil and Environmental Engineering Dept., SMU Lyle School of Engineering

with major support from

SMU Dedman College Interdisciplinary Institute

Subsurface Resources & Energy and Environmental Systems Research Clusters

8:30 am - 8:40 am: Welcome and Opening Remarks

Monika Ehrman, Professor of Law & Professor of Engineering (by courtesy)

SMU Dedman School of Law

SMU Lyle School of Engineering, Civil & Environmental Engineering Dept.

Alexander Chase, Assistant Professor

SMU Dedman College of Humanities & Science, Huffington Dept. of Earth Sciences

Karisa Cloward, Associate Professor & Director

SMU Dedman College of Humanities & Science, Dept. of Political Science

Dedman College Interdisciplinary Institute

8:40 am - 9:25 am: Session 1, Environmental Justice Initiatives

Session Moderator: Monika Ehrman, SMU

Cheryl Seager, Director, Enforcement and Compliance Assurance Division

Environmental Protection Agency Region 6

Suzanne Russo, Fellow & Environmental Justice Initiative Director

Resources for the Future

9:25 am - 10:15 am: Panel, Environmental Justice & Community Lawyering

Panel Moderator: Wendi Hammond, Legal Aid of NorthWest Texas

* Speakers express their own views and not necessarily the views of SMU or the Dedman College Interdisciplinary Institute. Texas MCLE Credit 4.00 hours CLE /0.75 hour Ethics CLE (application in process, not yet confirmed).



Wendi Hammond, Attorney, Community Revitalization Project
Legal Aid of NorthWest Texas

Letitia Wilbourn, Community Leader
Echo Heights & Stop Six Environmental Coalition

Detra Newhouse, Community Leader
Sandbranch, TX

Michael Bates, Attorney, Community Revitalization Project
Legal Aid of NorthWest Texas

10:15 am - 10:30 am: Break

10:30 am - 11:30 am: Session 2, Natural Resource Science, Law & Markets
Moderator: Monika Ehrman, SMU

Managing Metals Derivatives Markets Capriciousness and the Energy Transition
Colleen Baker, Associate Prof. of Legal Studies & Zinke Chair in Energy Management
The University of Oklahoma Price College of Business

Ownership Rights and Challenges in the Next Frontiers of Mining—Sea and Space
Monika Ehrman, Professor of Law
SMU Dedman School of Law

Soil Memories: Stable Carbon Isotopes of Coexisting Calcite and Organic Matter in Soil Profiles Across California State
Neil Tabor, Professor
SMU Dedman College of Humanities & Science, Huffington Dept. of Earth Sciences

11:30 am - 12:00 pm: Lunch
[Boxed lunches available for pick up to eat in Atrium]

12:00–12:45 pm: Lunch Keynote

Food Justice and Economic Vitalization in South Dallas
Owen Hanley Lynch, Associate Professor & Director of Honors Program
Doric Earle, Professor of Practice
SMU Meadows School of the Arts

12:45 pm - 1:00 pm: Break



1:00 pm - 2:15 pm: Session 3, Eenvtl. Issues & Interdisciplinary Solutions
Moderator: Alexander Chase, SMU

Ups and Downs of Beverly Hills, California – InSAR Reveals Three-Decades of Human-Induced Deformation

Yujie Zheng, Assistant Professor – Geophysics
The University of Texas at Dallas

Interactions Between Industry, Government, and Academia to Mitigate Induced Earthquakes from Oil and Gas Operations

Brian Stump, Professor
SMU Dedman College of Humanities & Science, Huffington Dept. of Earth Sciences

Potential and Limitations of Peatlands as Natural Climate Solutions

Moira Hough, Post-Doctoral Researcher
Dept. of College of Forest Resources & Eenvtl. Science at Michigan Tech University

Environmental Hazards Necessitate Interdisciplinary Collaborations: A Test Case on Methane Remediation

Alexander Chase, Assistant Professor
Dedman College of Humanities & Science, Huffington Dept. of Earth Sciences

2:15 pm–2:30 pm: Break

2:30 pm - 4:00 pm: Session 4, Carbon Management
Moderator: Christopher Hill, SMU

Defining Carbon Management and Identifying Research Opportunities

Christopher Hill, Adjunct Professor & CEO and Principal Consultant
SMU Lyle School of Engineering, Civil & Environmental Engineering Dept.
KC Hill Consulting

Building Safe, Permanent Carbon Storage for Tomorrow’s World

Alicia Summers, Chief Development Officer
Frontier Carbon Solutions

Defining the Future of Carbon Management

Tracy Evans, CEO
CapturePoint

The Future of Carbon Negative Materials

Purva Chawla, Founder & Adjunct Professor
MaterialDriven & SMU Lyle School of Engineering

Carbon Sequestration Legal Issues in Pore Space Acquisition



James Coleman, Professor of Law
SMU Dedman School of Law

4:00–4:15 pm: Break

4:15–5:00 pm: SMU Grad Student Lightning Round Presentations
Moderator: James Coleman, SMU

Development of Low-Cost Sensor Methane Detection Units for Continuous Monitoring
Sergio A. Escudero, International Research Assistant & PhD Candidate
SMU Lyle School of Engineering, Civil and Environmental Engineering Department

The Destiny of the Democratic Republic of the Congo: The Resource Curse and Charting a Course Towards Prosperity
Jaime Collazo, JD Candidate
SMU Dedman School of Law

Unraveling Natural Gas Migration Rate and Extent from Leaking Underground Pipelines under Varying Environmental Conditions
Navodi Jayarathne, PhD Candidate
SMU Lyle School of Engineering, Civil and Environmental Engineering Department

Impact of Weather Conditions on Residential Gas Leak Detection
Venkata Rao Gundapuneni, Postdoctoral Researcher
SMU Lyle School of Engineering, Civil & Environmental Engineering Department

Owning History: The Repatriation of Cultural Property in Texas
Mary Taylor Stanberry, JD Candidate
SMU Dedman School of Law

Sophia Yusuff, Graduate Student
SMU Lyle School of Engineering, Civil & Environmental Engineering Department

Hyperspectral Remote Sensing and Machine Learning Unleash New Horizons of Lake Water Quality Monitoring
MD Mamun, Postdoctoral Researcher
Dedman College of Humanities & Science, Huffington Dept. of Earth Sciences

5:00 pm: Concluding Remarks*

James Coleman, Professor of Law
SMU Dedman School of Law

* Note: The program is subject to change.