



CURRICULUM VITAE

Andra Wilcox Research Scientist

Houston Advanced Research Center (HARC)
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Education:

Texas A&M University, Graduate Certificate in Environmental Science
Mountain State University, M.S. in Strategic Leadership
Midwestern State University, Bachelor of Applied Arts and Sciences

Professional Experience:

Research Scientist, Energy Production – The Environmentally Friendly Drilling Systems (EFD) Program, Houston Advanced Research Center (HARC), The Woodlands, Texas, January 2016 - Present

- Assists with research, updating and recommendations for EFD Scorecard such as best management practices, evaluating documents for different stages of development/ecosystems.
- Coordinates the EFD Virtual Site used for outreach, training, and workforce development.
- Develops, coordinates and conducts presentations and workshops for outreach efforts
- Manages relationships with the various EFD partnering research organizations, industry sponsors and environmental advisors.
- Coordinates monthly reporting for EFD management team and subcontractors.
- Compiles, proofreads and submits required reports to RPSEA and DOE.
- Develop monthly newsletter communications to sponsors, stakeholders and subscribers.

Research Associate -July 2012 – December, 2015 HARC

- Coordinated various workshops for technology transfer initiatives
- Managed FracFocus 2.0 Training Development
- Developed presentations for outreach efforts – public, industry, and environmental organizations

Research Intern - Assistant - April 2012 – July, 2012 HARC

- Developed various technical reports.
- Assisted Director of the EFD Program with all aspects of project management.

Solid Waste-Recycling Monitor/Auditor January, 2012 – June, 2012: The Woodlands Township: Environmental Services

- Monitored and audited residential recycling program
- Ensured compliance with contractual procedures
- Generated reports and correspondence between local governing board and clients

Environmental Services Intern May, 2011 – January, 2012: The Woodlands Township: Environmental Services

- Collected, analyzed and tracked specimen for identification of arbovirus vectors
- Conducted field visits and site audits to investigate specific incidents
- Supervised laboratory personnel
- Public outreach at community events and lectures

Partnership Coordinator June, 2004 – April, 2011: Mountain State University

- Reviewed and evaluated career/continuing educational training (FEMA, NFA, Military, etc.)
- Established and managed organizational relationships
- Maintained articulation agreements with partner colleges and learning institutions

Awards and Honors

- 2015 VZ Environmental Excellence Award for Environmental Stewardship
2008 The Woodlands Township Volunteer of the Year

Publications

Wilcox, A., Haut, R., and Williams, T. “*Environmentally Friendly Drilling Systems Scorecard.*” Paper SPE 173572-MS presented at the SPE E&P Health, Safety, Security & Environmental Conference – Americas, 16-18 March 2015.

Wilcox, A., Haut, R., and Williams, T. “*Measuring Cost-Effective Practices to Address Environmental and Societal Issues Associated With Oil and Gas Development.*” Paper SPE 173632-MS presented at the SPE Production Operations Symposium, 1-5 March 2015.

Wilcox, A., and Haut, R. “*Environmentally Friendly Drilling (EFD) Scorecard.*” Selected for IAIA Conference – Emerging Good Practices in Responsible Oil & Gas Operations – May, 2013.

Haut, R. and Wilcox, A. “*Ralph and Rhonda Roughneck – Improving Environmental Awareness in the Oil Patch*” (coauthor). Selected for IADC Environmental Conference & Exhibition – April, 2013.

Wilcox, A. “*Working Towards Green E&P.*” Oilfield Technology Magazine, April, 2013.

Wilcox, A. “*Environmentally Friendly Drilling (EFD) Scorecard.*” Selected for IAIA 2013 Conference, February, 2013.

Presentations

June, 2016: “*Virtual O&G Site for Outreach.*” 2016 Energy Education Summit, Washington, DC

February, 2016: “*EFD Virtual Sites.*” 2016 Mid-Continent Digital Oilfield Conference, Tulsa, OK

October, 2015: “*Stakeholder Engagement and Development of Water Management Strategies.*” Groundwater Protection Council Annual Meeting, Oklahoma City, OK

March, 2015: “*Environmentally Friendly Drilling Systems Scorecard.*” SPE-173572-MS. 2015 SPE E&P Health, Safety, Security, and Environmental Conference – Americas, Denver, CO



April, 2014: “Developing Technologies and Best Management Practices to Minimize the Environmental Impacts of Natural Gas Exploration and Production” HSE for Unconventional Oil and Gas Conference, San Antonio, TX

October, 2012: “*Simple and Economic Testing of Groundwater for Contamination – Industrial & AgriBusiness*” - Integrated Petroleum Environmental Consortium, Denver, CO.

October, 2012: “*Reducing Environmental Tradeoffs Along the Texas Coastal Areas*” - Gulf Coast Association of Geological Societies Annual Conference, Austin, TX.

Synergistic Activities

- **Co-Chair** ‘Informal Education’ National Energy Education Summit – CEREL & NCSE
- **Nominated and Selected** for Health and Social Responsibility: The Role of the Oil and Gas Industry in Community Health – SPE Forum Series (June, 2015)
- **Subcommittee Member**, HSE: International Association of Drilling Contractors
- **Committee Member**, Society of Petroleum Engineers/American Association of Professional Landmen- Joint Workshop
- **Director and Past President**, The Woodlands GrassRoots Environmental Education Network

Collaborators and Other Affiliations

- Project Collaborators in the past 48 months:
 - HARC: Richard C. Haut, Ph.D., Carolyn LaFleur, P.E., Christopher Ruffer, Nelka Wijesinghe, Ph.D.
 - LEID, LLC: Tom Williams
 - Texas A&M: David Burnett, P.E.

Professional Memberships

- The Woodlands G.R.E.E.N. (GrassRoots Environmental Education Network) – director and past President
- Society of Petroleum Engineers – Member
- International Association of Drilling Contractors – Health, Safety, & Environment, Environmental Subcommittee Board Member