CURRICULUM VITAE

Roxana Zulauf Witter MD, MSPH, MS

I. Personal History

Present Position/Rank:	Assistant Research Professor Department of Environmental and Occupational Health Colorado School of Public Health University of Colorado Denver
Present Address (Academic):	University of Colorado Denver Colorado School of Public Health Department of Environmental and Occupational Health Aurora, CO
Citizenship:	U.S.A., Argentina, Switzerland
Marital Status:	Married: Joel Witter, MD Children: Jacob, Paige, Erik, Marcus

II. Educational History

1981-1984	Bachelor of Science, Georgetown University, Washington, D.C.
1989-1992	Master of Science (MS), Immunology and Microbiology, University of Colorado Health Sciences Center, Denver, Colorado.
1990-1996	Doctor of Medicine (MD), University of Colorado Health Sciences Center, Denver, Colorado
1996-1997	Internal Medicine Internship, Saint Joseph Hospital, Denver, Colorado.
2002-2009	Level II Full Accreditation, Division of Workers Compensation, Colorado Department of Labor (Re-Accredited, 2006).
2003-2005	Occupational and Environmental Medicine Residency, University of Colorado Health Sciences Center/National Jewish Research Center, Denver, Colorado

2003-2005	Master of Science of Public Health (MSPH), University of Colorado Health Sciences Center/National Jewish Research Center, Denver, Colorado.
2005-	Diplomat in Occupational and Environmental Medicine, American Board of Preventive Medicine. (Board certification)
2005-	Medical Review Officer, Medical Review Officer Certification Council.

III. Professional Positions

1997-2003	Staff Physician, Concentra Medical Centers, Denver, Colorado.
2005-2008	Clinic Physician, Injury Care of Colorado, Englewood, Colorado.
2006-2009	Medical Director, Gates Corporation, Denver Colorado.
2007-	Physician Reviewer, National Supplemental Screening Program, U.S. Department of Energy former worker program
2006-2008	Clinical Instructor, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver Colorado
2008-2009	Clinical Instructor, Department of Environmental and Occupational Health, Colorado School of Public Health, University of Colorado Denver
2009- 2010	Instructor, Department of Environmental and Occupational Health, Colorado School of Public Health, University of Colorado Denver
2010-	Assistant Research Professor, Department of Environmental and Occupational Health, Colorado School of Public Health, University of Colorado Denver

IV. Honors and Awards

1984	Sigma Xi, National Honorary Scientific Society.
2005	Recipient, American Conference of Occupational and Environmental Medicine, Resident Research Award.

V. Professional Affiliations

1999-2007	Academy of Breastfeeding Medicine

2010- American College of Occupational and Environmental Medicine

2010- American Public Health Association

VI. Professional Service and Committees

A. Institutional and Departmental Service

2006-2009 Residency clinical site preceptor, Occupational and Environmental Medicine Residency Program, University of Colorado Denver, Denver, Colorado.

2009- Departmental Curriculum Committee, Department of Environmental and Occupational Health, Colorado School of Public Health, Aurora, Colorado.

2010- Strategic Planning Committee, Occupational Health Surveillance Program, Colorado Department of Public Health and Environment

2010- Rocky Mountain Academy of Occupational and Environmental Medicine, Vice-President

2011- Colorado Occupational Health Surveillance Program, External Advisory Committee, Colorado Department of Public Health and Environment

VII. Patents

None

VIII. Review, Referee, and Editorial Activities

None

IX. Teaching Activities

A. Course Coordinator / Director

1999-2007 Breastfeeding Management, Fourth year medical student elective, School of Medicine, University of Colorado Health Science Center, Denver, Colorado (Course Developer and Coordinator).

2008-2009 EHOH 6616 Environmental and Occupational Toxicology, School of Public Health, University of Colorado, Aurora, Colorado (Course Co-developer and Co-Director).

2009- EHOH 6616 Environmental and Occupational Toxicology, School of Public Health, University of Colorado, Aurora, Colorado (Course Director).

B. Graduate and Medical School Lectures, University of Colorado

2005 "Occupational Liver Disease." Class: EH 536 Occupational Health, Colorado State University, Fort Collins, Colorado.

2008, 2010 "Intro to Occupational Medicine." Class: EH 536 Occupational Health, Colorado State University, Fort Collins, Colorado.

2009, 2010 "Toxicant Absorption and Distribution." Class: EHOH6616 Environmental and Occupational Toxicology, Colorado School of Public Health, Aurora, Colorado.

"Toxicant Metabolism and Elimination." Class: EHOH6616 Environmental and Occupational Toxicology, Colorado School of Public Health, Aurora, Colorado.

"Regulatory Aspects of Toxicology." Class: EHOH6616 Environmental and Occupational Toxicology, Colorado School of Public Health, Aurora, Colorado.

"Outdoor Air Pollution: The Common Agents and Their Toxicities." Class: EHOH6616 Environmental and Occupational Toxicology, Colorado School of Public Health, Aurora, Colorado.

"Human Health Risk Associated with Oil and Gas Activity."
Class: EHOH6614 Introduction to Occupational and Environmental Health, Colorado School of Public Health, Aurora, Colorado.

2010 "Health and Water Impacts of Oil and Gas Activity in the West."
Class: PAD5634 Policy and Planning for Sustainability, University of Colorado Denver, Auraria, Denver, Colorado.

"Human Health Risk Associated with Oil and Gas Activity."
Class: EHOH6614 Introduction to Occupational and Environmental Health, Colorado School of Public Health, Aurora, Colorado.

"Natural Gas Development and Associated Potential Exposures: Using Health Impact Assessment to Inform Decision Making"
Class: EHOH6614 Introduction to Occupational and Environmental Health, Colorado School of Public Health, Aurora, Colorado.

C. Student Preceptor

2009 Stephanie Stoke (Occupational / Environmental Medicine Resident) Art Students League Community Outreach Project.

2010 Meredith Towle (MPH student) Colorado School of Public Health (practicum) "Battlement Mesa Health Impact Assessment, Social Determinants of Health".

Meredith Towle (MPH student) Colorado School of Public Health (Capstone project in progress) "Occupational Injury and Illness in Colorado".

Lisa Mckenzie (MPH student) Colorado School of Public Health (practicum) "Battlement Mesa Health Impact Assessment, Human Health Risk Assessment".

Lisa McKenzie (MPH student) Colorado School of Public Health (Capstone) "Birth Prevalence of Orofacial Anomalies in Rural Colorado Communities Near Natural Gas Operations".

X. Invited Lectures and Symposia

2004 "Environmental Investigations, Sleuthing at the Workplace" Rocky Mountain Conference of Occupational and Environmental Medicine, Denver, Colorado.

2005 "Health Effects of Methamphetamine Lab Investigation in Law Enforcement Personnel." Resident Research Award, American Conference of Occupational and Environmental Medicine, Washington, D.C.

"Health Effects of Methamphetamine Lab Investigation in Law Enforcement Personnel." Rocky Mountain Conference of Occupational and Environmental Medicine, Denver, Colorado.

2007 "Pandemic Flu." Tomkins Corporation, Annual Health and Safety meeting, St. Augustine , Florida.

"Soft Tissue Injuries." Tomkins Corporation, Annual Health and Safety meeting, St. Augustine , Florida.

"Pandemic Flu." Gates Corporation, Annual Human Resources Meeting, Las Vegas, Nevada.

2008 "Human Health Risk Associated with Oil and Gas Activity:, Wilderness Workshop Panel Discussion, Carbondale, Colorado.

2009 "Determining Potential Health Outcomes Associated with Oil and Gas Activities." Hydraulic Fracturing in Colorado: A Public Forum, American Institute of Professional Geologists, Glenwood Springs, Colorado.

2010 "Battlement Mesa Health Impact Assessment and Exposure/Health Study." Battlement Mesa Health Study Stakeholder and Board of County Commissioners Meetings, Garfield County Public Health, Rifle, Colorado.

"Battlement Mesa Health Impact Assessment and Exposure/Health Study- Update" Battlement Mesa Health Study Stakeholder and Board of County Commissioners Meetings, Garfield County Public Health, Rifle, Colorado.

"Use of Health Impact Assessment to Inform Gas Permitting Decisions in Colorado" Colorado Environmental Health Association, Annual Education Conference, Colorado Springs, Colorado.

"Use of Health Impact Assessment to Inform Gas Permitting Decisions in Colorado" American Public Health Association Annual Conference, Denver, Colorado.

"Use of Health Impact Assessment to Inform Gas Permitting Decisions in Colorado" Health Effects of Shale Gas Extraction, University of Pittsburgh, Pittsburgh, Pennsylvania.

Mountain and Plains Educational and Research Center, Third Annual Research Symposium, Student Oral and Poster Presentation Judge, Loveland, Colorado

XI. Research Grants, Contracts and Special Grants

A. Current

2007- DE-FC01-05EH04022 U.S. Department of Energy, Oak Ridge Associated Universities (ORAU). Roxana Witter, Co-Investigator, National Supplemental Screening Program for U.S. DOE Former Workers. (Donna Cragle, John McInerney and Lee Newman, Co-PIs)

2008 Natural Resources Defense Council contract (to University Physicians, Inc.) Roxana Witter, Co-Investigator "Potential Health Effects of Oil

and Gas Development: Literature Review and White Paper." (Lee Newman, Project PI)

2010 Professional Services Agreement
Garfield County, Colorado
Health Impact Assessment of Gas Extraction in Battlement Mesa, Colorado
(Roxana Witter, Principal Investigator)
Total award period 5/1/2010-4/30/2011

2010 Pew Health Impact Project
"Health Impact Assessment of Gas Extraction in Colorado"
Technical Assistance and Training award
(Roxana Witter, Principal Investigator)
Total award period 6/1/2010-10/30/2010

2010 Garfield County, Colorado
Design of Environmental and Health Monitoring Study
(Roxana Witter, Principal Investigator)
Total award period 8/1/2010- 12/31/2011

XII. Bibliography

A. Papers published in refereed journals

1. RC Duke, **RZ Witter**, PB Nash, JD Young, DM Ojcius. Cytolysis Mediated by Pore Forming Agents: The Role of Intracellular Calcium in Apoptosis. *FASEB* 1994, 8:237-46.

2. **RZ Witter**, JW Martyny, K Mueller, B Gottschall, LS Newman. Symptoms Experienced by Law Enforcement Personnel During Methamphetamine Lab Investigations, *Journal of Occupational and Environmental Hygiene*, 2007, 4:12, 895 – 902.

B. Papers in preparation

1. **RZ Witter**, K Stinson, LS Newman.
Potential Health Impacts of Oil and Gas Extraction and Production.

2. **RZ Witter**, S Stoke, J Schaffer.
Evaluation of Potential Occupational Hazards at an Art School; A Case Study.

3. **RZWitter**, L Mckenzie, A Adgate

HIA as a Public Health Tool for Natural Gas Development Project

B. Books and reviews

1. Mackenzie TD, Fenton CJ, **Witter RZ**. Smoking Cessation. In: Parsons PE, Heffner JE (eds.), *Pulmonary/Respiratory Therapy Secrets* Hanley & Belfort, 1996; 111-115.

XIII. Consultation

2007 Globeimmune: Consultation: Upgrade to BioSafety Level-2 laboratories and medical monitoring. Broomfield, Colorado.

2009-2010 Art Students League: Community outreach and consultation project: Safety Initiative in the use of art materials and practices. Denver, Colorado.

2010 Garfield County: Health Impact Assessment for Antero Natural Gas Project in Battlement Mesa Colorado. Garfield County, Colorado