

Occupational and Environmental Forensics

Discovering the Facts Through Science and Medicine

Although our physical world consists largely of chemicals, disputes regarding the consequences of chemical exposures and environmental events often raise difficult, emotional issues.

We can help you develop scientifically defensible litigation strategies that save time and money.

Ecology and Environment, Inc. (E & E) helps attorneys, corporations, and governments develop, understand, and use scientific and medical evidence to resolve health-related claims and make risk-based decisions. Our work clarifies health and environmental issues to provide a framework for arbitration and, when necessary, to support litigation.



To conduct health and ecological assessments following the Gulf War, our multidisciplinary team evaluated thousands of medical records and environmental data sets.

We develop medical and scientific data needed to evaluate claims of injury

Claims that human illness has been caused by chemicals and other substances in the environment or workplace are often difficult to prove. E & E critically evaluates such claims to shift the focus from emotional pleas for relief to scientific scrutiny.

To discover the facts regarding cause and effect, we review medical records, conduct independent medical exams, and provide diagnostic evaluations. Our multidisciplinary teams determine if claims of injury are biologically plausible.

E & E's health and safety advisory committee, which includes international experts in internal and occupational medicine, public health, food safety, epidemiology, pharmacology, and toxicology, provides you with an established panel of expert knowledge.

Our chemical exposure analyses, now numbering over 600, have withstood regulatory, public, and judicial scrutiny

The study of both therapeutic and harmful effects of chemicals has a rich history that dates back to ancient times. When exposure occurs, the issues become: how much of a chemical has been involved, and how often has the exposure occurred? Exposure is easy to claim, but by itself may not cause human disease or ailment.

We estimate realistic exposures, evaluate the relationship between exposure and the effective dose, test possible causes, and identify confounding variables. You can rely on our exposure analyses to make decisions regarding the best position or strategy.



Our laboratory provides courtroom-quality data.

E & E Resources

Toxicologists	Engineers
Physicians	Waste Specialists
Chemists	Hydrologists
Molecular Biologists	Industrial Hygienists
Immunologists	Radiation Specialists
Epidemiologists	Computer Programmers
Pharmacologists	Database/GIS Designers
Food Safety Experts	Economists

E & E Services

Scientific Evaluations

Molecular Biology/
Carcinogenesis
Toxicology Profiles
Exposure Assessments

Medical Support

Independent Medical Exams
Medical Records Reviews
Medical Monitoring
Program Reviews

Risk Analysis

Individual
Contributory
Comparative

Defense Strategy

Daubert Challenges
Class Certification Challenges
Discovery Support

Engineering Support

Air and Groundwater
Dispersion Modeling
Remedial Program Critiques
GIS Development

Economic Valuation

Cost Allocation
Statistical Analysis
Impact Evaluations



ecology and environment, inc.

International Specialists in the Environment

We challenge junk science

Our courts are rife with witnesses who misrepresent scientific reality and exploit the public's fear of chemicals. E & E can effectively thwart the junk science that plagues many important debates by using the principles established by the *Frye* decision and more recently by the U.S. Supreme Court rulings in *Daubert v. Merrell Dow*, *GE v. Joiner*, and *Kumho Tire v. Carmichael*.

We provide you with the "technical edge" you may need to refute junk science and compel the use of sound scientific knowledge and methodologies in claims, expert testimony, and allegations, as required by *Daubert*. For example, our strong molecular biology expertise can refute simplistic causation theories and exclude testimony that fails to account for DNA repairs and cellular defense mechanisms.

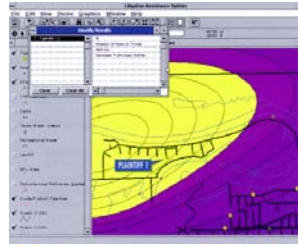


E & E's opinions reflect the experience we have gained evaluating thousands of medical records and more than 20,000 sites containing chemicals of potential concern. This experience includes conducting medical monitoring and medical surveillance in environmental and occupational settings while working for both industry and government over three decades. The credibility we have gained from these activities can help you win your case.

Our forensic services free our clients to focus on strategy

Due to the complex circumstances that arise in litigation or emergencies, enormous amounts of data must be collected, stored, and analyzed to prepare a credible defense. When allegations are made by large classes of plaintiffs, rapid access to reliable data is essential.

From any of our offices worldwide, we can rapidly identify and retrieve pertinent scientific, medical, business, and government literature to give you the most accurate, up-to-date knowledge available.



Environmental litigation often involves complex spatial and temporal issues, as well as hundreds, if not thousands, of plaintiffs. Geographic information system (GIS) technology is particularly useful for combining large data sets and organizing them to provide powerful, insightful analysis. E & E uses GIS to establish impact zones for compounds of concern; to screen and organize plaintiffs' complaints by exposure, location, and symptoms; and to manage interrogatory, deposition, and medical profile information.

We develop sound approaches to PRP cost allocation and economic analyses

We review site information to develop scientifically defensible allocation formulas based on factors such as toxicity, relative impact of particular "driver" compounds on the selected remedy (e.g., excavation, groundwater pumping or treatment, etc.), mobility characteristics, and fate and transport mechanisms. We are experienced in the statistical analysis of large data sets required to examine the causative link between exposure and health care costs and the evaluation of economic models. We also conduct economic impact evaluations associated with environmental impairment of real property, and we use these same skills to evaluate remediation costs, conduct damage evaluations and allocate costs at contaminated sites.

E & E's demonstrated knowledge, experience, insight are available at offices worldwide. For more information, please contact George Rusk, Esq., E & E's Director of Forensic Toxicology and Medical Services, at 716-684-8060 or e-mail: grusk@enc.com.

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International Locations

South America

- Caracas, Venezuela
- Lima, Peru
- Quito, Ecuador
- Rio de Janeiro, Brazil
- Bogotá, Colombia
- Buenos Aires, Argentina
- San Jose, Costa Rica
- Santiago, Chile

Africa/Middle East/Europe

- Amman, Jordan
- Anhui, China
- Ankara, Turkey
- Berlin, Germany
- Cairo, Egypt
- Dammam, Saudi Arabia
- Jeddah, Saudi Arabia
- Kuwait City, Kuwait

Asia

- Beijing, China
- Kunming, China
- Shenyang, China
- Tianjin, China