

Registration Form PLEASE PRINT

Attendee Name: _____

Affiliation: _____

Address: _____

Phone: _____

Email: _____

Registration Course Fee:

\$2400 General \$1900 State/Local/Tribal

Late Registration Fee: (received after March 12)

\$2600 General \$2100 State/Local/Tribal

Payment Method:

- Purchase order (government agencies only)
- Check (payable TERA, include Attendee name in memo)
- Credit Card: Visa MasterCard

Card# _____

Expiration date: _____ Security No. _____

Name on card: _____

Signature: _____

Billing Address: _____

or same as above

Phone: _____

Please see TERA's cancellation and substitution policy at www.TERA.org

I've read and understand TERA's cancellation policy.

Fax to: 513-964-9472, or email to ayers@tera.org, or
Mail to: TERA

1250 Ohio Pike, STE 197
Cincinnati, Ohio 45102

**Ask us about
Customizable Courses
at your site or ours!**

**Our Dose-Response Assessment course
is available for private, on-site training.**

The course can also be presented in a
3-day or 4-day format.

We will work with you to select the most
relevant topics for your group from
our full course outline.

For more information contact:

Patricia McGinnis, PhD, DABT
513.542.7475 ext. 102 • mcginnis@tera.org

or

Michael Dourson, PhD, DABT, FATS, FSRA
513.542.7475 ext. 105 • dourson@tera.org

www.TERA.org

Toxicology Excellence for Risk Assessment

**NEXT COURSE
April 1 - 5, 2019**

**Cincinnati, Ohio
at the
Drug and Poison
Information Center**



TOXICOLOGY EXCELLENCE FOR RISK ASSESSMENT

**RISK ASSESSMENT from
0 to 95% Confidence in 5 days!**



**Dose-Response
Assessment
Bootcamp Course**

The accelerated, intensive
hands-on training in

**HAZARD CHARACTERIZATION
and
DOSE-RESPONSE ASSESSMENT**

for which TERA
is known worldwide.

5-day Course Information

Who should attend?

- Risk assessors and toxicologists who conduct, write, and/or review chemical assessments
- Risk managers or policymakers who use the results of chemical assessments and want to fully understand the processes involved in risk development.

Prerequisites

- Basic understanding of toxicology
- Interest in developing skills in human health risk assessment.

What you should bring

- Laptop
- Calculator

What you will learn

This course is a 5-day intensive hands-on training in hazard characterization and dose-response assessment. Both beginners and expert toxicological risk assessors will learn advanced methods, and enhance their understanding and skills in the basics. Course lectures will be supplemented with daily hands-on application exercises.

There will be homework

Make sure to reserve time each evening for the homework exercises.

Upon completion of the course, participants will be able to derive and evaluate risk values and supporting documentation for both non-cancer and cancer risk assessments.

The course is held Monday through Friday from 9:00am to 5:00pm. Although class usually ends early on Friday.

Course Topics

Non-Cancer and Cancer Risk Assessment Methods

- Critically analyze effect data
- Apply frameworks for evaluating mode of action (MOA) & human relevance
- Understand & apply toxicokinetic data in evaluating MOA & developing risk values
- Synthesize data for hazard characterization and critical effect identification
- Learn latest technologies in risk assessment

Dosimetric Adjustment Methods in Dose-Response

- Develop interspecies oral dose adjustments, conversions for cancer unit risk/slope factor and inhalation exposures, and calculate human equivalent concentrations (HECs) for particles and vapors
- Understand uses of PBPK modeling in risk assessment and issues for its application

Benchmark Dose (BMD) Modeling and Application in Risk Assessment

- Hands-on experience using BMD modeling for all models in EPA software (i.e., dichotomous continuous, cancer, nested)
- Apply BMD modeling, choose models & parameters, select data & run models, and select appropriate BMD as point of departure in a human health assessment

Principles for Application of Uncertainty Factors & Chemical Specific Adjustment Factors (CSAFs)

- Use of uncertainty factors by regulatory groups, use of data to support values other than defaults

- Develop and use CSAFs, as used by IPCS, using mechanistic & toxicokinetic data to replace defaults

Comprehensive Risk Assessment Practice with Peer Review

- Develop, present and review comprehensive non-cancer and cancer assessment over the course of the week



CM/CEU points available

4 Continuing Maintenance (CM) points are available from the American Board of Industrial Hygienists (ABIH)

5 Continuing Education Units (CEU) are available from the National Environmental Health Association (NEHA)