

# Multi-Agency Radiological Laboratory Analytical Protocols (MARLAP)

## Practical Training on MARLAP Part I

**What:** MARLAP Part I is intended for planners and managers of radioanalytical projects and laboratory personnel who support them. Part I provides the basic framework of the directed planning process, including project planning, key issues to be considered during the development of analytical protocol specifications, developing measurement quality objectives, understanding the qualitative and quantitative components of method uncertainty, project planning documents and their significance, obtaining laboratory services, selecting and applying analytical methods, evaluating methods and laboratories, verifying and validating radiochemical data, and assessing data quality.

This three-day course will cover all aspects of radiochemical project planning and will provide practical examples, exercises, and case studies. The course will conclude with a comprehensive exercise where participants will apply what they learned to evaluate indoor and ambient air quality following the release of Am-241 from a radiological dispersion device (RDD, or "dirty bomb").

**Who Should Attend:** Project Managers and planners for radiation sites and facilities working on projects requiring radioanalytical data for decisionmaking; and laboratory personnel working on radioanalytical projects

**When:** June 14 – 16, 2011  
8:00 am to 4:45 pm Tuesday,  
8:15 am to 4:45 pm Wednesday, and  
8:00 am to 4:15 pm Thursday

**Where:** Department of Toxic Substances Control  
700 Heinz Avenue, 3<sup>rd</sup> Floor Auditorium  
Berkeley, CA 94710

### Directions and Visitor Information

Chip Gribble  
510-540-3773  
[cgribble@dtsc.ca.gov](mailto:cgribble@dtsc.ca.gov)

*The Department of Toxic Substances Control building is a secure facility. Visitors must be pre-registered and will need to check with the receptionist, who will have your name on an approved entry list. Parking is available at the facility, but when you sign in, you will be given a visitor parking permit that must be displayed in your car. After signing in, you will be directed to the Auditorium on the third floor.*

**To Register:**  
(Registration Deadline <http://www.trainex.org>  
May 13, 2011)

**For questions  
about the training** John Griggs  
334-270-3450  
[Griggs.John@epa.gov](mailto:Griggs.John@epa.gov)

**Cost:** FREE!

### Instructors

**Carl Gogolak**, Ph.D., is a physicist with 40 years experience. He was a major contributor to both MARSSIM and MARLAP, for which he authored or co-authored several chapters and appendices dealing with uncertainty, the gray region, and data quality. He was an original developer and instructor on previous versions of the MARLAP Part I training course prior to his retirement from the Environmental Measurements Laboratory of the U.S. Department of Energy and later the Department of Homeland Security.

**Robert Litman**, Ph.D., has been a researcher and practitioner of nuclear and radiochemical analysis for the past 40 years. He is well respected in the nuclear power industry as a specialist in radiochemistry and instrumentation. His particular areas of expertise are gamma spectroscopy and radiochemical separations. Dr. Litman co-authored two chapters of MARLAP and co-authored several EPA documents over the past six years dealing with emergency response and rapid radiochemical analysis for radiochemical laboratories. Dr. Litman has been teaching courses in radiochemistry and related special areas for the past 30 years.

**David E. McCurdy**, Ph.D., is a nationally recognized expert in radioanalytical method development, and he has more than 40 years of experience in the areas of radiometrology, radiochemical method development, radiobioassay, radiological laboratory operations, environmental monitoring and pathway analysis. He was the principal author or co-author of seven chapters and appendices of MARLAP, and also co-authored several EPA publications dealing with radionuclides in drinking water and emergency response and rapid radiochemical analysis for radiochemical laboratories.