

Battelle serves **COMMERCIAL CUSTOMERS** in the
AgriFood, Automotive Technology, Energy Products,
Healthcare Products and Chemical Products markets.

AgriFood

Battelle has built an international, world-class team in environmental risk assessment and development of agrochemical registration strategies. Integrating the best talent and resources from four prestigious laboratories—two in Europe, two (including one national lab) in the

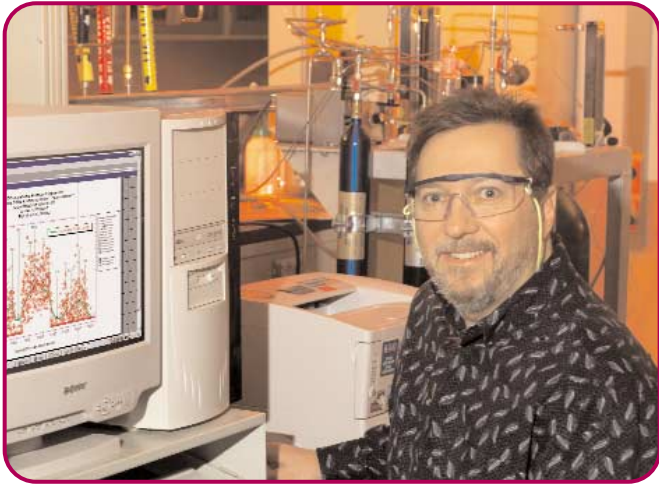
"Risk assessment is a challenging, relatively young science that gives me the opportunity—indeed the necessity—to work with colleagues from a wide range of scientific disciplines. With direct access to both the technology and expertise, such as Geographical Information System data that will be incredibly useful when working on country-specific assessments, Battelle can move risk assessment to the next level."

—**Ian Hardy**, environmental risk assessment modeling expert, Battelle AgriFood, Ltd., Ongar, Essex, UK.



"New plant protection products are more efficient, requiring lower dose rates, providing rapid breakdown, and representing more environmentally sound products. I enjoy working with customers to develop sophisticated analytical methods that determine the lowest acceptable levels of residues in soil, water, and crops. By supporting the successful registration of new, safer compounds, I contribute to a solution of global importance—the sustainable development of agriculture."

—**Nathalie Ginzburg** is managing a two-year residue program for an international chemical company, including the development of analytical methodology for a new compound. She works in Battelle AgriFood's Geneva, Switzerland, laboratory.



"A more scientifically accurate prediction of the effect of herbicides and pesticides on humans, the pharmacokinetic models we are developing with agrochemical clients present a more realistic evaluation of human health risks than is currently available."

—**Charles Timchalk**, scientist, Pacific Northwest National Laboratory. Chuck's work has had profound impact in agrochemical modeling. One of five recipients of the 2000 STAR (Science to Achieve Results) Award from the DOE, he also won the "Best Technical Paper" award at the annual meeting of the Society of Toxicology for his work.

United States—Battelle is successfully pioneering a strategy of coinvesting—or risk/value sharing—with major agrochemical companies worldwide. Our AgriFood teams are playing an important role in new product development, label extension, and European reregistration for the most successful players in the global agrochemical industry.

Automotive Technology

Sophisticated emission control technologies will clean the exhaust from next-generation diesel engines to meet future restrictions on oxides of nitrogen and particulate matter. Battelle is integrating a world-class team that includes three national laboratories to develop and commercialize emission control products for both transportation

"The science to effectively remove all pollutants from diesel exhaust is now being refined in laboratories. Our task is to combine this science into commercially viable systems that use the outstanding fuel efficiency of advanced diesel engines—without risk to our environment or health."

—**Jim Patten**, Battelle VP for Vehicle and Emissions Systems, is integrating a top management team from three national laboratories to help next-generation high-efficiency engines meet emissions requirements. Pictured (from left) are Ron Graves (ORNL), George Sverdrup (NREL), Jim Patten and Jud Virden (PNNL).

