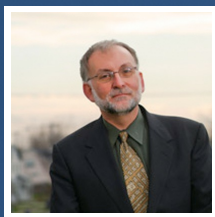


# Innovative Science Partners with Community Members



Joseph A. Gardella, Jr.  
SUNY Distinguished Professor and John and Frances Larkin Professor of Chemistry

## CURRENT RESEARCH


### Relying upon sophisticated science and the experiences of communities

Research is filled with innovations and novel inventions that will never reach the broader community. For this reason, the relationship between scientists and community members has become necessary; when communities share their needs with science and scientists try to meet those needs with their research, the probability of developing materials or processes that will impact the community grows exponentially. Dr. Joseph Gardella, SUNY Distinguished Professor and John and Frances Larkin Professor of Chemistry at the University at Buffalo, SUNY, conducts research with a clear purpose to benefit communities. He and his team work closely on community-based research in environmental science with affected communities in Western New York in addition to developing engineering solutions for the future. Despite the diversity of his projects, each of them are motivated by concrete problems and communication with affected communities. Therefore, Dr. Gardella's group is making strides in each of their research areas that are likely to have a long lasting impact on the people they aim to serve.

All of Dr. Gardella's work depends on collaborative teams. For instance, his work with tissue engineering relies on a holistic team of surgeons, researchers, imaging specialists in medicine and engineering, materials chemists, and clinicians. In this way, whether his project is based in academia or the community, he is continually asking whether the impact will be overarching. In fact, when working on a basic research question, Dr. Gardella explains that often he will "throw an idea out" if a community member or clinician doesn't feel that implementation is possible. This humble approach to science and community-needs for the last..

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## AFFILIATION

 University at Buffalo, SUNY

## EDUCATION

- B.A., in Philosophy, 1977 , Oakland University
- B.S., in Chemistry, 1977 , Oakland University
- Ph.D., in Analytical Chemistry, 1981 , University of Pittsburgh
- Postdoctoral Faculty Intern, Chemistry, 1981-1982 , University of Utah

## AWARDS

- American Chemical Society, Division of Analytical Chemistry, J. Calvin Giddings Award for Excellence in Education, March, 2014
- National Science Foundation Award for Special Creativity (twice), 2009-2011, 1991-93
- Fellow of the American Association for the Advancement of Science (AAAS), February, 2007
- Presidential Award for Excellence in Science, Mathematics and Engineering Mentorship (PAESMEM), President George W. Bush and the National Science Foundation, 2005
- Ernest A. Lynton Award for Faculty Professional Service and Academic Outreach, New England Resource Center for Higher Education ([www.nerche.org](http://www.nerche.org)), 2003

## RESEARCH AREAS

Life Science, Diagnostics, Regenerative Medicine, Poverty & Equality

## FUNDING REQUEST

Your contributions will support the continued research of Joseph Gardella, at the University at Buffalo, SUNY, as he develops methods to characterize chemical toxins and then maps the environmental distributions in air and soil. Donations will fund the necessary \$500K/year required for personnel, the K-12 outreach program, and future research. Join in expanding science so that communities can decide how to remediate or cleanup legacy sites such as brownfields in urban communities.