



NSF-EPSCoR
Environmental Research
and Training Laboratories

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<http://www.engr.uky.edu/~ertl/index.html>

Objective

- Improve quality, scope, impact, and competitiveness of environmental research in Kentucky.
 - Enhance research infrastructure through focused strategic investments in laboratories and faculty/staff
 - UK- Laboratory Infrastructure (ERTL)
 - Geosciences Isotope Core Facility
 - Metals and Xenobiotics Core Facility
 - Microbial Core Facility
 - UK- Staff/Faculty
 - Core Facility Staff
 - Faculty
 - UK- Education and Outreach
 - Student Training
 - Outreach to Other Researchers and Industrial Partners

Mission Statement:

- Through a multidisciplinary approach to research, the Environmental Research Training Laboratory (ERTL) at the University of Kentucky is dedicated to providing the university community as well as the Commonwealth, testing services and access to state-of-the-art laboratory equipment that will facilitate the development as well as the continuation of environmental research.

ERTL Offers...

- Access to state-of-the-art research instrumentation.
- Impeccable data QA/QC.
- Highly trained and knowledgeable staff members.
- A wide range of testing capabilities (various organic and inorganic analyses, microbial analyses and stable isotopic testing).
- Training, outreach, and research opportunities.

Faculty and Staff Recruited



Trish Coakley



Dr. Carmo



Bob King



John May



Dr. Rowe

Accomplishments of ERTL: Y-3

- Students trained and supported:
 - 66 graduate students, 10 MURG-science and engineering
 - 8 undergraduate students, 2 MURG-science and engineering
 - 2 K-12 students
- Supported research resulting in 35 accepted publications, 21 of which have student as first author.
- Supported research resulting in 12 submitted/in preparation publications, 2 of which have student as first author.
- Supported research resulting in 109 conference presentations.
- Involved with numerous outreach activities to community on K-12 and college level
- New competitive grants supported (\$16.8 million)
- New pending grants (\$3.8 million)
- Addition of quantitative PCR and flow cytometer to microbial facility.

Next Steps

- Develop and implement business plan
 - Goal is cost recovery of staff salaries
 - Seek joint endowments with TFCE
- Implement next NSF-EPSCoR grant that links environmental research with KGS and Agriculture Extension outreach in western Kentucky
- Recruit more KERECE partners