

# HAROLD J. TOUPS

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## PROFESSIONAL HIGHLIGHTS

- Led design and development of state-of-the-art laboratory and pilot plant data acquisition systems utilized in process research experimentation.
  - Performed data collection, analysis, and interpretation; and reported findings, key to the development of new and improved refinery processes.
  - Led development and implementation of organization's safety goals, objectives, and action plans.
  - Directed development and delivery of organization's safety, health, and environmental training curricula.
  - Attained Distinguished Research Associate title, one of the highest technical titles available within ExxonMobil, 2003.
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## EXPERIENCE

**Louisiana State University**  
**Department of Chemical Engineering**

Baton Rouge, Louisiana  
2003 – Present

Serving as industry-experienced instructor in communications-intensive core and capstone senior-level undergraduate chemical engineering courses, championing active learning classroom strategies:

ChE 4162 – Unit Operations Laboratory (Lead Instructor, and current commitment),  
ChE 4172 – Process Design, and  
ChE 4151 – Unit Operations Design

Received a 2015 Tiger Athletic Foundation Undergraduate Teaching Award

Co-authored paper entitled "Better Integration Of Process Design / Control Principles In Engineering Labs," presented by Dr. Kerry Dooley at the 2005 AIChE Annual Meeting.

**ExxonMobil Process Research Laboratories (EMPR)**  
Progressive responsibility and achievement.

Baton Rouge, Louisiana  
1973 – 2003

Began employment with Esso Research Laboratories, serving eight years as a research associate for the petroleum industry's premier process research and development laboratory. Functioned the past twenty years as leader of and mentor for a wide variety of research support services teams (e.g., Instrumentation Services; Design Services; Quality & Continuous Improvement Team; Training & Education Group; and the Safety, Health, & Environmental Group) and as in-house business improvement consultant to senior management.

***In-house Business Improvement Consultant to Senior Management*** (1992 – 2003)

- Change agent and business process redesign expert for EMPR business leadership.
- Helped guide development of business plans regarding research and research support work processes for a series of Laboratory Managers.

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### *Safety, Health, and Environmental Group* (1995 – 2003)

- Provided technical and administrative leadership for safety, industrial hygiene and environmental needs.
- Continuously improved organization's safety record to the best in over 10 years. Responsible for standards and training for all employees in both laboratory and pilot unit domains.
- Supervised and mentored the activities of Safety, IH and Environmental Coordinators.
- Editor and co-author of major rewrite of EMPR Safety Manual, authoring the online version as well as web-based safety, health, and environmental information.

### *Training and Education Group* (1990 – 2003)

- Led the group, and provided a range of services from regulatory compliance training to satellite education curricula.

### *Quality and Continuous Improvement Team* (1991 – 1994)

- Led major reengineering project to dramatically reduced cost of research support services.
- Efforts resulted in 30% reduction in research overhead costs during following years.

### *Design Services* (1985 – 1995)

- Led pilot unit, laboratory, and facilities design services team that provided unique R&D-scale design competencies.
- Directed specification, selection and installation teams for the implementation of Honeywell TDC-3000 technology into the R&D environment.
- Projects ranged from small and large pilot units to electrical substations to major revamp of chilled water system.
- Coordinated activities of both in-house and outside contractor services.

### *Instrumentation Services* (1984 – 1989)

- Led support group responsible for servicing all conventional and modern instrumentation for all pilot unit and laboratory research systems, including process analyzers.

*Functioned as mainline R&D engineer working in small and large pilot plant operations.* (1973 – 1984)

## EDUCATION AND TRAINING

LOUISIANA STATE UNIVERSITY – Baton Rouge, Louisiana

**Ph.D.** Major: Chemical Engineering Minor: Microbiology

**M.S.** Major: Chemical Engineering Minor: Economics

**B.S.** Major: Chemical Engineering

Completed numerous career development, knowledge, skill-building and technology courses during employment at ExxonMobil Process Research Laboratories (EMPR)

## PUBLICATIONS STEMMING FROM EDUCATION

Takahashi, P.K., H.J. Toups, D.B. Greenberg, G.T. Dimopoulos, L.L. Rusoff, **Irradiation of Escherichia coli in the visible spectrum with a tunable organic-dye laser energy source.** Applied Microbiology. 02/1975; 29(1):63-7.

Greenberg, D.B., H.J. Toups, **Mass transfer to fluids in laminar pipe flow.** Transactions of the Society for Modeling and Simulation International – SIMULATION. 01/1970; 14(1):37-44.