Curriculum Vitae - Barry Guillory

Barry Guillory is an experienced Chemicals Project Leader and Chemical Engineering Educator. He has demonstrated leadership in diverse project assignments within the Dow Chemical Company. He has also leveraged his experience by teaching Chemical Engineering students at Louisiana State University. Barry has experience living and working on international projects located in United Kingdom and Saudi Arabia.

Education	**:**	Masters of Science in Chemical Engineering
University	**:**	Louisiana State University
Completion date	**:**	1984
Contact information	**:**	
Email/LinkedIn	**:**	Barry.Guillory@gmail.com; www.linkedin.com/in/barry-guillory
Phone (USA)	**:**	504 644 8408
Current Job Title	**:**	**Professional in Residence**

Louisiana State University Experience:

2017 – Current Professional in Residence in Chemical Engineering at Louisiana State University Including:

- Instructor:
  - Introduction to Chemical Engineering – ChE 1100
  - Introduction to Process Design – ChE 3171
  - Chemical Engineering Co-op – ChE 3249
  - Laboratory BIO and LLE Experiments – ChE 4162
  - Plant Design – ChE 4172
- Co Instructor for:
  - Thermodynamics – ChE 3172
  - Fluid Dynamics – ChE 3101
- Undergraduate Coordinator including:
  - Student Advising
  - Curriculum Change Management
  - Leadership if Undergraduate Committee
  - Senior Graduation Checkout

Dow Chemical Experience:

2015 – 2016 Technology Leader for Commissioning and Startup for Sadara Chemicals 1 Project
Provided Leadership and Coordination for:

- Technology Licensing
- Process Safety / Environmental Permits and Regulatory Compliance
- Startup Troubleshooting

2013 – 2015 Project Manager for Sadara Chemicals I Project

Provided Leadership for Construction, Procurement, Contract Management, and Pre-Commissioning of Sadara Chemicals 1 Unit

2007 – 2013 Process Engineering Leader and EH&S Leader for Sadara Chemicals I Project

Provided Process Engineering and EH&S leadership for FEED design through Detail Engineering. Directed over 150,000 engineering workhours in the execution of the Process Design for the combined units - Project Scope included:

- Brine Unit – 110MM$ Total Installed Capital
- Chlor-Alkali Unit (CA) – 350MM$ Total Installed Capital
- HCl Conversion Unit (HCU) – 410MM$ Total Installed Capital
- Envelope Support Systems (ESS) – 200MM$ Total Installed Capital

2004-2007 Computer Aided Engineering Manager for Dow Chemical

Provided Leadership for the Dow Chemical Computer Aided Engineering Department supporting over 2000 software users with 60 software support engineers

1998-2004 Process Engineering Manager for Dow Chemical; Freeport Texas

Provided Leadership for a department of 75 process engineers in support of 50 chemical production units at the Freeport Texas site - Projects included Chlor Alkali, Light Hydrocarbons, Polyethylene, Styrene, Epoxy, Isocyanates, and Propylene Oxide technologies. Responsibilities also included:

- Leadership of Process Simplification and Value Engineering Value Improving Practices
- Six Sigma Master Black Belt

1996-1998 Process Engineering Software Technology Leader for Dow Chemical

Provided technical leadership to support software systems for 500 Dow Chemical Process Engineers - Software products included AspenPlus Simulation, Heat Transfer, Distillation, Overpressure Relief, and Fluid Dynamics.

1993-1996 Project Manager for CFC Replacement project at Chlorine I Plant; Plaquemine, Louisiana

Provided leadership for process development, process design, detail engineering, construction, commissioning, and startup (40MM$ capital). Project started on-time and delivered an 8% increase in plant production rates.

1989-1993 Chlorine Plant Production Engineer; Chlorine I Plant Plaquemine, Louisiana

Responsible for operation of Chorine I plant including coordination of plant and equipment outages, and leading plant improvement projects

1987-1989 Lead Process Engineer; Plaquemine, Louisiana

Completed process design for capital projects including:

Polyethylene Slurry Degassing Project
Glycol I Propylene Oxide Expansion Project
Coal Gasification Plant Reliability Project
Cellulose Waste Water Steam Stripping Project

1985-1987 Plant Engineering Department/Computer Aided Engineering; Plaquemine

Led the upgrade of the Dow mechanical design tools; Important work experience includes implementation of the Microstation 2D drafting systems and the application of Finite Element analysis tools to solve Light Hydrocarbon plant problems.

Certifications:

- Certified Six Sigma Black Belt
- Professional Engineering License in Louisiana

Training:

- Dow Chemical Global Project Methodology
- Dow Chemical Global Process Engineering Work Process Discipline
- AspenTech including AspenPlus, Advanced Physical Prop, Advanced Distillation, and Zyqad
- Advanced Pressure Relief