



## Richard J. M. Bidwell, P.E.

Vice President

Chemical & Industrial Technology



### Licensed Professional Chemical Engineer

Fire and Explosion  
Investigation

Natural Gas, LP and  
Propane Systems

Chemical and Industrial  
Processes

Industrial Incident  
Investigations

Chemical Release and  
Exposure

Bulk Material  
Transportation Incident  
Investigation

Combustion & Heating  
Equipment

Industrial and  
Commercial Safety

Industrial and Heavy  
Equipment

HVAC and Refrigeration  
Equipment

Plumbing, Piping and  
Pumping Systems

Mr. Bidwell brings to ITC Expert Services over 25 years of multi-disciplined engineering experience. He has fully utilized his diverse hands-on experience in the national and international investigations of fires and explosions involving residential, commercial and industrial facilities and heavy equipment. He has also been responsible for failure analysis and incident investigations relating to industrial and chemical processes or process equipment, chemical exposure and industrial accidents. Mr. Bidwell has nearly two decades of experience in all engineering aspects of chemical processing and industrial plant operations, including design, maintenance, safety and bulk material handling and transportation. Clients have included major petroleum and chemical producers, fuel gas companies and suppliers, the United States Chemical Hazard and Safety Board (CSB) and the United States Environmental Protection Agency (EPA).

Licensed by examination as a Professional Engineer and having testified in State, Federal, and International Courts. In addition, Mr. Bidwell provides expert testimony and litigation support.

In addition to his engineering experience, Mr. Bidwell is a General Industry OSHA Authorized Instructor, and has been a certified automotive mechanic, a licensed Journeyman plumber, a certified welder, a trained emergency medical technician (EMT) and commercial truck driver.

### Professional Experience

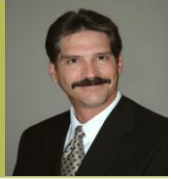
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- **ITC Expert Services**, 2007 to present, Vice President Chemical and Industrial Technology
- **Packer Engineering**, 1999 to 2007, Managing Senior Director, Chemical, Fire & Explosion
- **Bidwell Engineering**, 1994 to 1999, Contract Engineer
- **Riverdale Chemical**, 1987 to 1999, Assistant Plant Manager/Director of Engineering
- **Solv-Ex Corporation**, 1983 to 1987, Chemical Engineer
- **Calyxes Research and Development**, 1982 to 1983, Research Engineer

### Education

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- **University of New Mexico**: Bachelor of Science, Chemical Engineering, 1982



## Licensures and Certificates

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- Professional Engineer, State of Illinois, License No. 062-057925 (2004)
- Fundamentals of Engineering Exam (2003)
- General Industry OSHA Authorized Instructor (2004)
- Licensed Journeyman Plumber (1974)
- Certified Automotive Mechanic (1976)
- Emergency Medical Technician (1977)
- Certified Welder (1979)
- Commercial Trucking Licenses (1978 – 1988)

## Professional Development

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- Advanced Fluid Mixing (1994)
- Investigation of Gas and Electric Appliance Fires (2000)
- Behavior Training for Safety (2000)
- TapRoot® Incident Investigation (2000)
- PSM: Design and Evaluation of Process Safety Management Systems (2000)
- Pressure Relief Systems Design 1 (2001)
- Metallurgical Failures in Fossil Fired Boilers (2001)
- Preparation Classes for P.E. Exam (2003)
- OSHA 501 General Industry “Train the Trainer” (2004)
- OSHA 40 Hour HAZWOPER Training (2005)
- 20<sup>th</sup> Fire Science & Investigation Course, University of Edinburgh (2006)
- Dust Explosions: Fundamentals and Modern Developments (2006)

## Affiliations

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- American Chemical Society (ACS)
- American Institute of Chemical Engineers (AIChE)
- American Society of Safety Engineers (ASSE)
- American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)
- National Fire Protection Association (NFPA)
- American Society of Mechanical Engineers (ASME)
- International Association of Arson Investigators (IAAI)

## Presentations

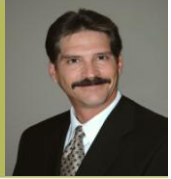
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- R.J.M. Bidwell, M. Murray, “Accident Investigation,” Illinois Society of Professional Engineers / American Society of Mechanical Engineers, Wheaton, Illinois (2002).



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- R.J.M. Bidwell, R.J. Lucas, "A Primer on Fire Investigations," International Association of Special Investigator Units, Annual Meeting, Albuquerque, New Mexico (2002).
- R.J.M. Bidwell, A.R. Carpenter, D.T. Morrison, R.J. Lucas, "A Primer on Fire Investigations," Naperville, Illinois (2002).
- R.J.M. Bidwell, P.K. Burke, "Fire Science Concept Session" (2 Sessions), Property Loss Research Bureau, Orlando, Florida (2002).
- R. J. M. Bidwell, M. L. Hanks, "A Primer on the Investigation of Fires and Explosions," Ohio Association of Civil Trial Attorneys, (2004).
- R. J. M. Bidwell "A Primer on the Investigation of Fires and Explosion," Northern Illinois University, DeKalb, Illinois (2004).
- R. J. M. Bidwell, P.E., J. M. McKinney, P.E., J. E. Meyer, Ph.D., D. G. Curry, Ph.D., P.E., J. Laun "Fire Investigator Training," CNH America, Burr Ridge, Illinois, (2005).