

CURRICULUM VITAE

JAMES F. BIR, P.E.



Experience & Qualifications

Mr. Bir is a Principal Engineer of LOCK ONE, INC., Consulting Engineers. He has over 30 years of professional engineering practice. His professional experience includes the design of highways, bridges and industrial structures as well as the structural design and analysis of all types of buildings. These buildings have included large assembly halls, interior renovations for commercial buildings, large industrial facilities and care facilities for the mentally and physically handicapped. He is the engineer of record for the design of bridges in five states. He is also experienced in the inspection of existing bridges and heavy industrial structures as well as the design of structural rehabilitation for those structures.

Mr. Bir is experienced in the field of forensic engineering. He has investigated several cases that involved structural failures of buildings, bulk storage silos and mobile cranes. He has been involved with numerous drainage investigations and mitigation projects involving storm sewer issues and roadway design. He has been deposed as an expert witness in many cases involving construction related injuries, structural failures and accident reconstructions. Mr. Bir has also investigated fire losses of structures, vehicles and equipment; he has testified on the results of fire investigations in Ohio, West Virginia and Kentucky.

Mr. Bir has detailed knowledge of building codes and is a former Building Official and Plans Examiner certified by the State of Ohio.

Education

Mr. Bir holds the degree of Bachelor of Civil Engineering from the Ohio State University, Columbus, Ohio and an Associate Degree in Mechanical Engineering Technology from Sinclair College, Dayton, Ohio.

Registration

Mr. Bir is a Registered Professional Engineer in Ohio, Florida, Indiana, Kentucky, Michigan, Pennsylvania, Virginia, and West Virginia.

PROFESSIONAL ORGANIZATIONS

American Consulting Engineers Council (ACEC)

American Society of Civil Engineers (ASCE)

International Code Council (ICC)

Council of American Structural Engineers (CASE)

Mideast Ohio Regional Association Consulting Engineers (MORACE)

**Specialized
Training**

Fire Investigation:

- Lee S. Cole & Associates, 12 hour course, Investigation of Vehicle Fires, 1990
- Automatic Fire Alarm Association, Inc., 7 hour course, Automatic Fire Detection and Fire Alarm Systems, 1995

Building Codes

- The New 1989 Ohio Basic Building Code (OBBC) – Update Seminar, Ohio Design Professionals and Code Analysts, Inc. (ODPCA) and Construction Specifications Institute (CSI) and Central Ohio Code Officials Association (COCOA), 6 hours, 1989
- Non-Structural Plan Review, Building Officials & Code Administrators International, Inc. (BOCA), 10 hours, 1990
- Overview 1990 National Electric Code (NEC), Ohio Design Professionals & Code Analysts, Inc., 6 hours, 1992
- Non-Structural Plan Review, Building Officials & Code Administrators International, Inc. (BOCA), 10 hours, 1992
- Building Approvals for Child-Care Facilities, Ohio Board of Building Standards, 3 hours, 1994
- Special and Mixed Uses, Building Officials and Code Administrators International, Inc. (BOCA), 8 hours, 1994
- Everyday Operations of a Building Department, Ohio Board of Building Standards, 6 hours, 1995
- OBOA/COCOA 7th Annual Joint Conference, OBBS '96 NEC BBS 950419-03, 24 hours, 1997
- Overview of the 2002 Ohio Building Code Seminar, Building Officials and Code Administrators International, Inc. (BOCA), 5 hours, 2001

Building Technologies

- Introduction to Sprinkler and Standpipe Systems, Schulte & Associates, 12 hours, 1990
- Sprinkler System Plan Review Workshop, Shulte & Associates, 6 hours, 1990
- Proper Methods of Fabrication, Installation and Inspection of Heating, Ventilating and Air Conditioning Systems, National Training Fund for the Sheet Metal and Air Conditioning Industry (NTF), 8 hours, 1993
- Helical Pulldown Micropiles, Hubbell Power Systems, 2 hours, 2003