



**NORRIS L. FANNING**

Mechanical Team

**Summary:** Norris has been responsible for the design of mechanical systems for more than 3000 projects. He personally participates in the design of projects involving new engineering concepts, critical schedules, prototype development, unusual construction, or historic preservation. He authored our software for CADD, business management and engineering applications. Responsible for over-all quality control of construction documents to meet codes, criteria, and standards, he advises the design concept conference at the beginning of a project and the quality control review at the end of a project.

**Specific innovative engineering concepts which Mr. Fanning developed or improved include:**

- \* Total fresh air HVAC for hospitals to conserve energy and minimize cross-contamination
- \* Incremental re-cooling systems for surgeries
- \* Precision evaporative preprocessing for surgery HVAC
- \* Passive cooling using building mass and evaporation
- \* Airside economizer cycle in an air-supported structure
- \* Waterside economizer using wet bulb depression
- \* Asymmetric double duct variable volume air distribution
- \* Thermal storage using economical underground storage

**Education:** BSME, Texas Technological College, (Lubbock) 1959  
Tau Beta Pi National Honorary Engineering Fraternity  
Member of Academy of Mechanical Engineers

**Professional Experience:** 63 Years Time with Firm: 44 Years

**Registration and Professional Affiliations:**

Professional Engineer, Texas #22312  
 NSPE, TSPE American/Texas Society of Professional Engineers  
 South Plains Engineer of the year (2003).  
 ASHRAE American Society of Heating, Air Conditioning and Refrigeration Engineers  
 Past-President West Texas Chapter of ASHRAE. Life Member  
 CEC Consulting Engineers Council of Texas, Past Director  
 CSI Construction Specifications Institute, Member, President 1996-1997  
 NFPA National Fire Protection Association, Associate Member  
 Past Guest Lecturer for Department of Architecture, Texas Tech University  
 Past LISD Vocational - Technical Committee, Building trades.

**Client Reference:** Mr. Don Moore,  
Texas Tech University  
Lubbock, Texas

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