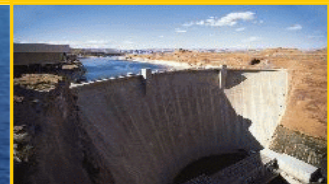




**FOSTA<sup>®</sup>**

Fibre Optic Sensing  
Technology and Applications



FOSTA® stands for Fibre Optic Sensing Technology and Applications. FOSTA Pte Ltd is a Singapore government (www.edb.gov.sg) invested hi-tech fibre optic sensing instrumentation company for building and construction industries. FOSTA's strength is her patented sensor technology and project implementation experience for buildings and bridges. FOSTA has four synergised activities:

### **1. Structural Health Monitoring (SHM) Using Fibre Optic Sensors (FOS)**

- Design, fabricate, supply, install, operate and report SHM systems using:-
  - Fibre Bragg Grating (FBG) technology

Her earliest FOS SHM project was conducted in a concrete bridge in 1998. After 8 years, the sensors are now still in working conditions, in which none of other companies has such longest track record.

### **2. Distributed Temperature System (DTS) and Distributed Temperature & Strain Systems (DTSS)**

- Raman and Brillouin linear fibre optic sensing technology for fire detection of tunnels, powerlines and dams, etc.

### **3. Civil and Geotechnical Instrumentation and Monitoring**

- Real-time and global internet access
- Sophisticated data management, warning and automated reporting systems
- 15 years project experience in 28 countries
- Broad range of industrial experience: urban work, building, transport, energy, risk and environment

### **4. Structural Strengthening Using FRP Wrap**

- Design, supply and install glass and carbon fibre reinforced polymer (FRP) wrap for structural repair, strengthening, and explosion/seismic protection
- 10 years experience in US and worldwide
- Comprehensive product range: carbon and glass fibres, laminate and plate, land and marine applications, and vertical and overhead surface applications, etc.

(FOSTA® is a registered trademark.)