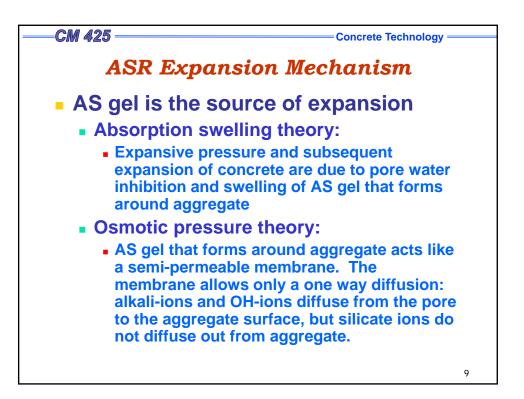


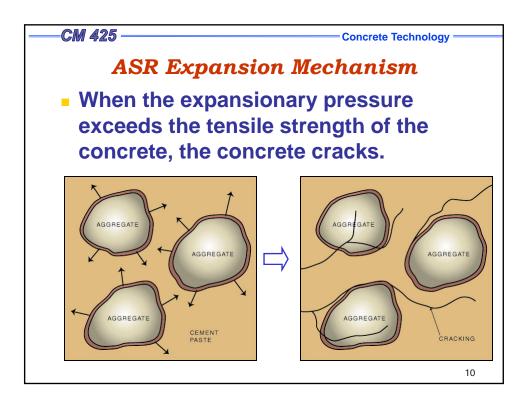
#### —— Concrete Technology

**Durability of Concrete** 

CM 425 \_\_\_\_\_

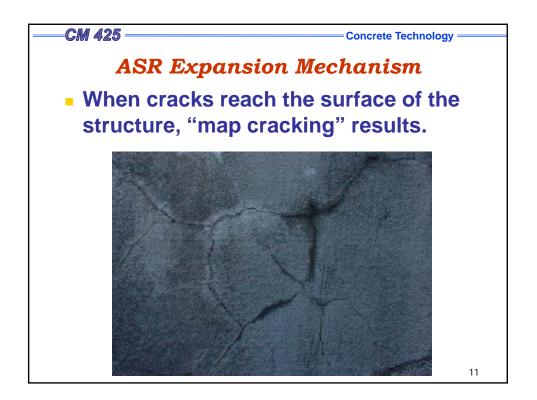


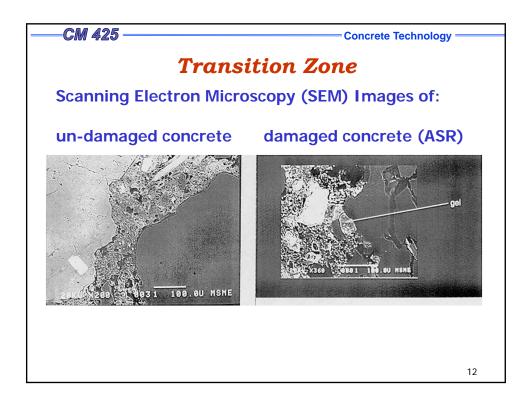




Professor Kamran M. Nemati Winter Quarter 2013

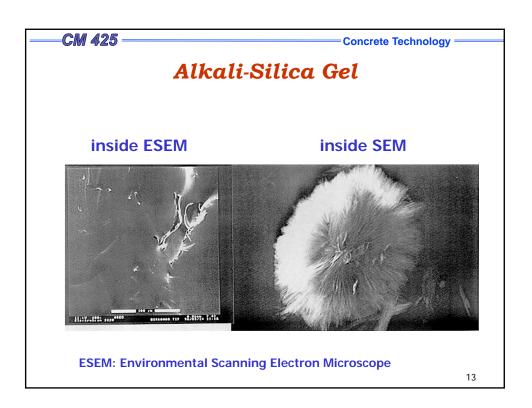






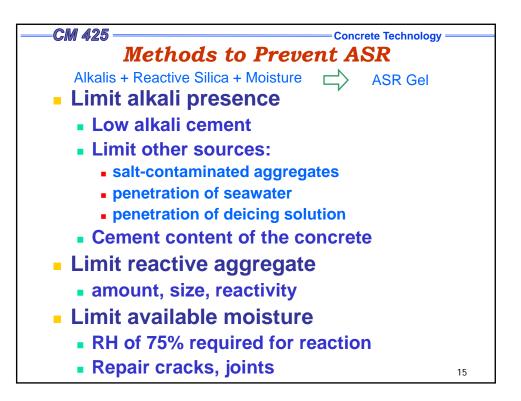
Professor Kamran M. Nemati Winter Quarter 2013

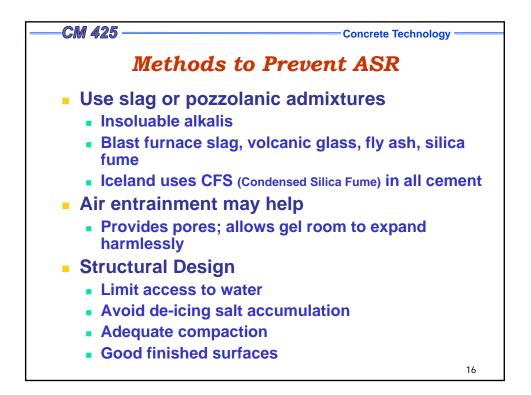










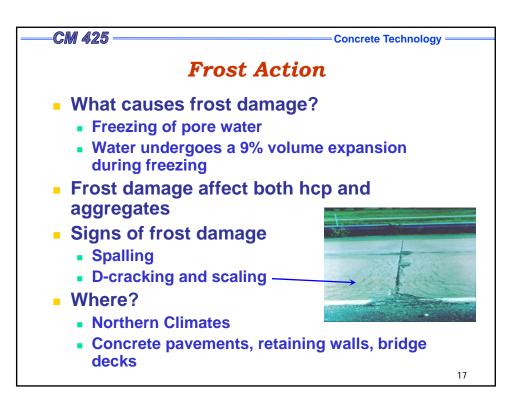


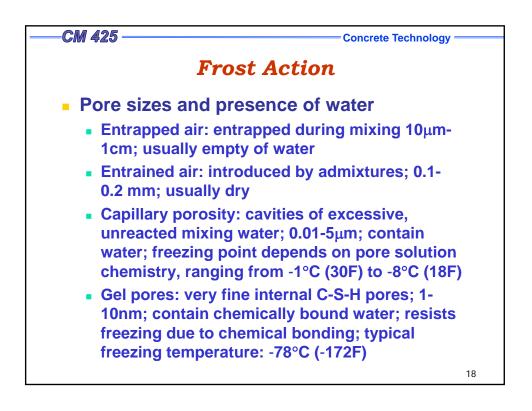
— Concrete Technology



### **Durability of Concrete**

CM 425 \_\_\_\_



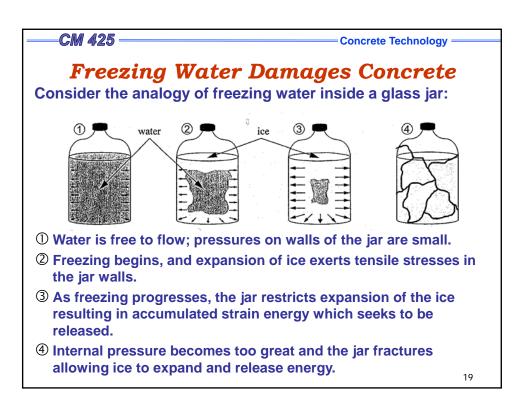


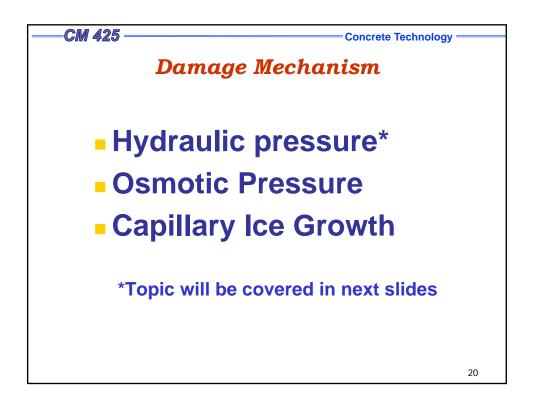
#### ——— Concrete Technology



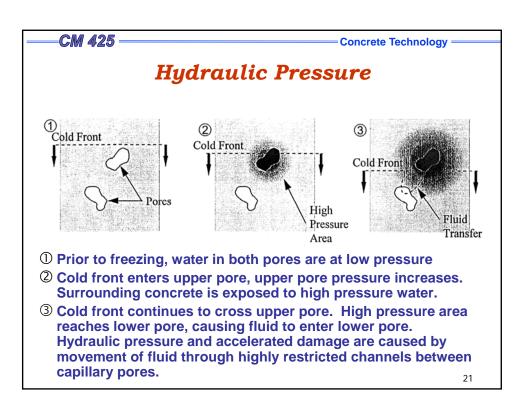
## **Durability of Concrete**

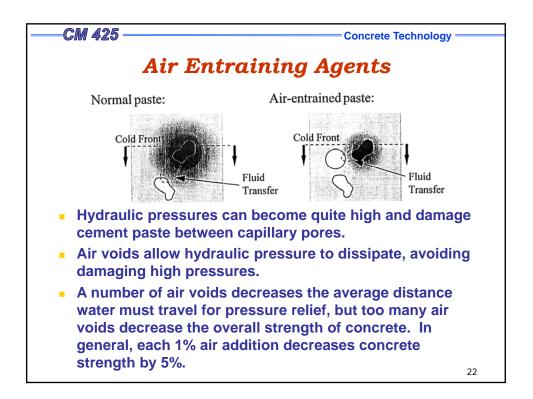
CM 425 =



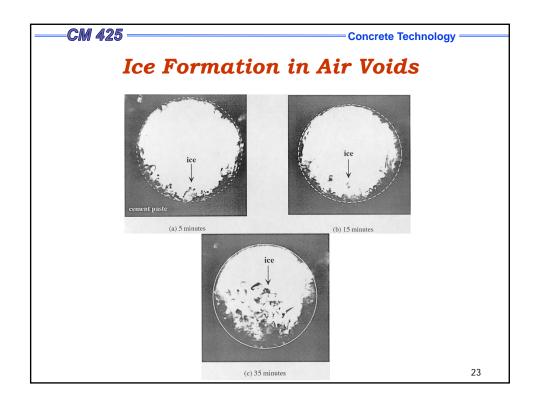








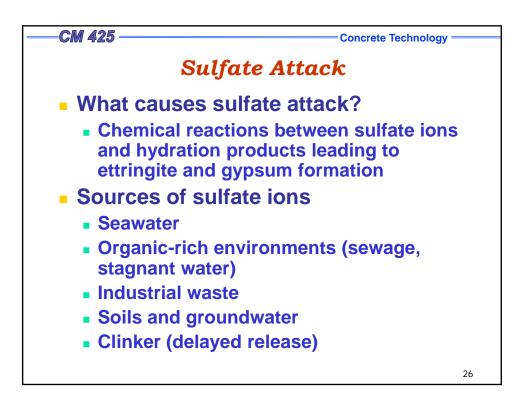






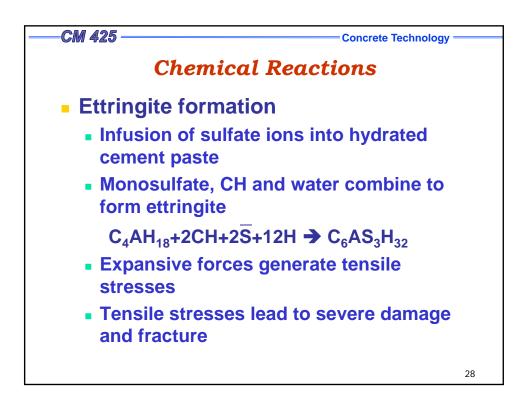






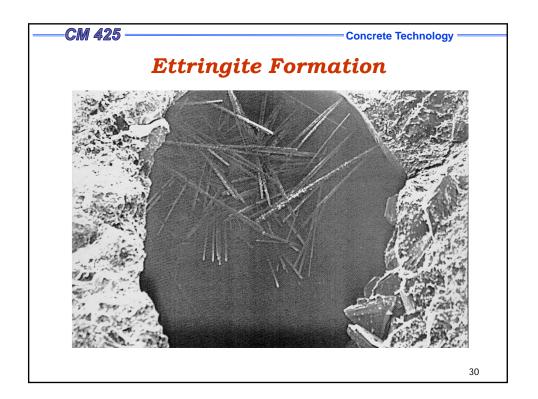


CM 425 Sulfate Attack • Signs of sulfate attack • Extensive cracking and expansion (damage starts at edges and corners) • Deposition of ettringite crystals in internal cracks or internal voids • Characteristic whitish appearance on surface • Othere? • dams, bridge piers, hydraulic structures

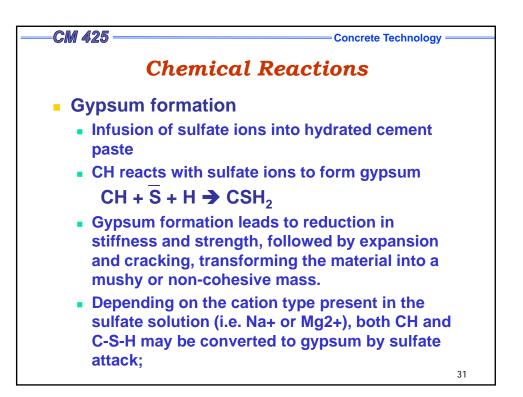


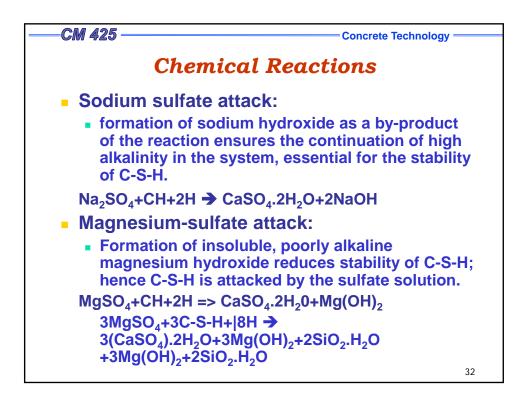


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#### — Concrete Technology



#### **Durability of Concrete**

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