Day 1

8:00    Welcome To PCA  
        Michelle Wilson  
        PCA

8:30    CONSTRUCTION PROCEDURES  
        - A GLOBAL PERSPECTIVE  
        Michelle Wilson  
        PCA

        General Overview  
        QA/QC  
        ASTM C 94, ACI 301 Specifications- what has been promised?

10:00   BREAK

10:15   FRESHLY MIXED CONCRETE PROBLEMS  
        George Seegebrecht  
        CCE

        -Slump loss  
        -Control of air content  
        -Workability  
        -Construction & design errors  
        -Setting time and mixing temp.  
        -Erratic batching errors  
        -Stickiness and harshness  
        -Segregation  
        -Cement/admixture compatibility  
        -Yield  
        -Bleeding

12:00   LUNCH

1:00    THERMAL CONTROL OF CONCRETE  
        John Gajda  
        MJ2 Consulting

        -Effects of High Temperatures  
        -Mass Concrete  
        -Methods of Thermal Control

2:30    BREAK

2:45    TROUBLESHOOTING CONCRETE FLOOR CONSTRUCTION  
        Scott Tarr  
        NorthStarr Concrete

        -Floor Flatness Tolerances  
        -Minimizing Drying Shrinkage  
        -Curling  
        -Abrasion Resistance

4:30    EVALUATION & ADJOURN
Day 2

8:00  THE CONDITION SURVEY & CAUSES OF DISTRESS- Michelle Wilson
      • How to Conduct an Investigation
        - Field Kit,
        - Selection of samples, -good vs. bad

10:00  BREAK

10:15  THE CONDITION SURVEY –Part 2 Michelle Wilson
      •Hardened Problems
        -Low Strength
        -Scaling and Spalling
        -Disintegration
          chemical
          biological
        -Honeycombing
        -Bug Holes
        -Cold Joints
        -Blisters
        -Crazing
        -Dusting

12:00  LUNCH

1:00  CRACKING IN CONCRETE Matt D’Ambrosia MJ2 Consulting
      -Plastic
        Drying Shrinkage
        Settlement
      -Hardened
        Drying Shrinkage
        Thermal Stresses
        Non-structural
      -Prevention
        Mix Design
        Jointing and Details

2:30  BREAK

2:45  FREEZE THAW DAMAGE George Seegebrecht

3:30  CORROSION Matt D’Ambrosia

4:30  EVALUATION & ADJOURN
Troubleshooting: Solutions to Concrete Field Problems

Day 3

8:00  IN-PLACE EVALUATION METHODS
      In-place strength (pullout and pull-off tests)
      Uniformity (rebound hammer and pulse velocity)
      Location of defects (impact-echo, impulse response, ultrasonic echo)
      Corrosion assessment (half-cell potential and corrosion rate)
      Nick Carino
      Consultant

10:00  BREAK

10:15  IN-PLACE EVALUATION METHODS (Cont.)
      Demonstrations
      Claus Petersen
      Germann Instruments

12:30  LUNCH

1:30   PETROGRAPHIC REPORT
      Victoria Jennings
      CTLGroup

3:00   EVALUATION

3:15   ADJOURN