















# Members of Vision 2020 Council (2015)

- · K. Nam Shiu, Chair
- Kelly Page
- Tanya Komas
- Charles Hanskat
- Paul Tourney
- Jay Paul

- Peter Emmons
- Narendra Gossain
- Fred Goodwin
- Kurt Van Fay
- Claudio Manissero

## 15 Goals (I)

- 1. Industry Cooperation
- 2. Accelerate Industry Documents
- 3. Create Repair Code
- 4. Create Repair Specifications
- 5. Improve Repair Materials
- Friendly Repair Methods/Materials
- Predict Performance
- Strategic Repair Research Council

## 15 Goals (II)

- 9. Recruiting, Increase Professionals
- 10. Improve Project Relationships
- 11. Educate Owners
- 12. Accurate Assessment
- 13. Specific Repair Systems
- 14. Branding & Promotion of Concrete Repair Industry





### 1. Industry Cooperation

- Establishment of Vision 2020 Council
- Concrete Repair Manual 4th Ed.
- Floor Moisture Document
- ICRI & SWRI Horizontal Waterproofing Manual
- ICRI-PTI P/T Evaluation
- ICRI 710.1-2004 Guide Protective Polymer Flooring System for Concrete
- International Co-operation

## 2. Accelerated Industry Documents

- Established Funding of \$250,000 with USBR for Evaluation Protocol for Corrosion Protection Research
- Funding for Repair Related Issues
- Internet Portal for Concrete repair
  - e.g. <Fixconcrete.org>
  - Jointly Owned by ACI & ICRI
- Floor Moisture Document

## 3. Create Repair Code

- ACI Committee 562 Concrete Repair Code completed in 2012
- ICRI Committee: Notes on ACI 562 -Concrete Repair Code completed in 2015
- ACI Committee 562E Educational Seminars

## 4. Create Specifications

- ACI Committee 563 Repair Specifications
   performance based
- Develop Installation Guide specifications
- ICRI Committee 130.1R-2009, Guide for Methods of Measurement and Contract Types

### 5. Improve Repair Materials

- ACI Committee 546.3R Repair Material Selection Guide Completed
- ICRI 320.2 2009
- ICRI 320.3 2012 Data Sheet Protocol for Inorganic Repair Materials
- EN1504 Products and Systems and ISO 16311
- Validate Service Life Model
  - ACI Life 365 Software
  - Stadium Model derived from Summa Model
- Develop Standard Test Methods to Evaluate Repair Materials, US Bureau of Reclamation

## 6. Friendlier Repair Methodologies & Materials

- ICRI 120 White Paper on Silica in the Repair Environment
- Formation of Sustainability committee at ICRI and ACI
- Formation of ICRI Safety Committee, ICRI 120.1 - 2009 Guidelines for Safety in the Concrete Repair Industry and ICRI CRB article entitled "Safety Solutions."

#### 7. Predict Performance

- US Bureau of Reclamation Project
  - ► Funding of \$ 250K established
  - ► Test Protocol for Repair Materials / Techniques
- · ACI 365 Life Model, Stadium Model, etc.

## 8. Strategic Repair Research Council

- Establish Strategic Repair Research Council (SRRC) in 2012, approved as an ICT at SDC
- Funding research through the US Bureau of Reclamation (USBR)
- Part of ACI Research Foundation
- Collect and Identify Repair related Research Topics

## 9.Increase Professionals, Recruitment

- Concrete Industry Management (CIM)
   Program Undergraduate Program
- CIM at different Universities with Scholarship program for attending ICRI and ACI
- Target University to Offer Concrete Repair Related Classes and Post-graduate Program

# 10. Improve Project Relationship

 ICRI established Procurement and Relationship Committee with recommended guidelines

#### 11. Educate Owners

- ICRI Committee 140 established to develop Life Cycle performance and Costs
- ICRI Committee 210 to develop guidelines "Owner's Guide to Inspection and Maintenance for Concrete Masonry Buildings.

#### 12. Condition Assessment

- Many Guidelines Developed for how to perform and utilize condition assessment, ACI-364-1R; SEI/ASCE 11-99; SEO/ASCE 30-00, TCRP Report 157, etc.
- Promotion of Health Monitoring, Theme of Spring 2011 ACI Conference "Structural Health Monitoring System" in Houston
- Use of New Technologies in Condition Assessment, e.g. Laser Scanning, Remote Inspection using Drone Technology

## 13. Specific Repair Systems

- Research on Non-cracking Concrete
- Goal suspended

## 14. Branding & Promotion

- Fall 2011 Workshop, identified action items
- New Name for the Industry: Repair, Rehabilitation, Restoration, Renewal, Repurpose, Re-use, Extending Service Life etc.
- Synergy from Stake-holders in Promotion, Research, and Recognition

## 15. Sustainability

- Fall 2011 Workshop, identified action items
- Develop Analytic Tools, Model to Predict Sustainability
- Promote, Celebrate and Share Successes
- Training and Education
- New Recognition beyond LEED for Built Environment
- Build with the intention of Re-use and Repurpose

## **INTERIM REMARKS**

Moving forward strategically, Focused,
Journey continues

#### Where Do We Go From Here?

- A lot of work has been completed
- Many things have been accomplished
- Still lots to do

#### Time to Review

- Now is the time to review what has been completed
- Determine priorities going forward
  - These priorities should be based on today's needs
- Tomorrow we will have a 2 hour breakout session
- Breakout session is open to everyone

#### We Want You

- We want your input
- This is your opportunity to say what is important
- Help set the direction for our industry



### Vision 2020 - Mission & Goals

The mission of Vision 2020 is to provide a strategic plan for improvements in the Concrete Repair Industry, making the industry more efficient, effective, green, safe, and fun by year 2020.



## 15 Goals (I)

- 1. Industry Cooperation
- 2. Accelerate Industry Documents
- 3. Create Repair Code
- 4. Create Repair Specifications
- 5. Improve Repair Materials
- Friendly Repair Methods/Materials
- 7. Predict Performance
- Strategic Repair Research Council

## 15 Goals (II)

- 9. Recruiting, Increase Professionals
- 10. Improve Project Relationships
- 11. Educate Owners
- 12. Accurate Assessment
- 13. Specific Repair Systems
- 14. Branding & Promotion of Concrete Repair Industry
- 15. Sustainability of Concrete Repair

