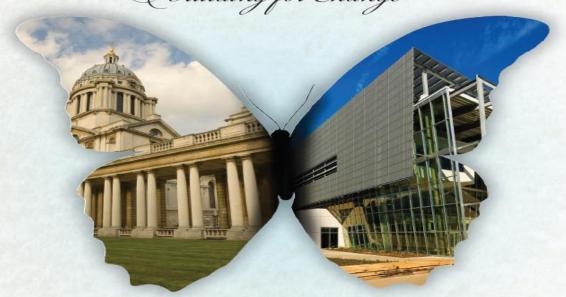


Managing Metamorphosis, Building for Change



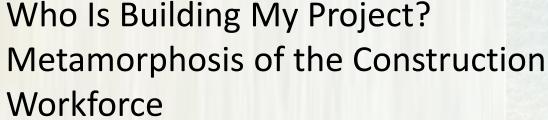
Session: 100312

Date: Friday, October 3, 2014

Time: 9:45 am - 10:45 am







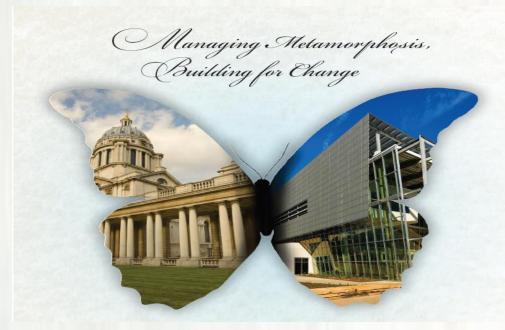


Presented by:

- Spencer Moore, Vice President of Facilities Management and Operations, University of Texas MD Anderson Cancer Center
- Danny Thompson, Construction Director, Vaughn Construction







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The Changing Face of Today's Construction Workforce

Agenda

- Challenges with Today's Construction Workforce
- Solution for a Sustainable Workforce
- Benefits to the Owner



Challenges with Today's Construction Workforce

Challenge: Aging Workforce

- The average craft worker is <u>47</u>
- The average entry age into the industry is 29
- 20 % of the workforce is expected to retire within 3 years





Challenge: Fewer Workers

Departures during Recession (2 million layoffs since 2006)

- + No Comprehensive Immigration Policy
- + Oil & Gas Jobs
- + Industrial Construction
- + Less Movement of Workers
 - **1** Demand vs. **↓** Supply



Challenge: Less Skilled Workers

- Limited vocational training programs in Texas
- Industry becoming more technical
- Move toward preparing all students for college

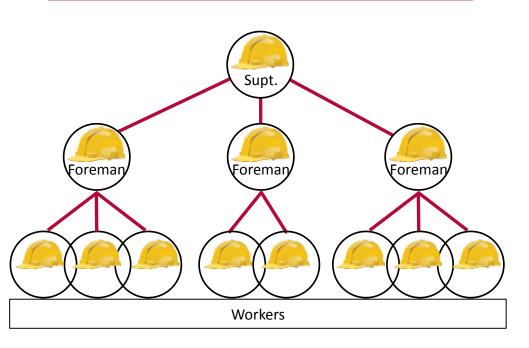


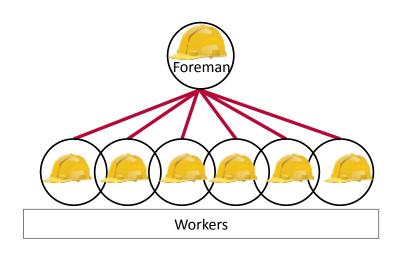


Challenge: Less Supervision

2009

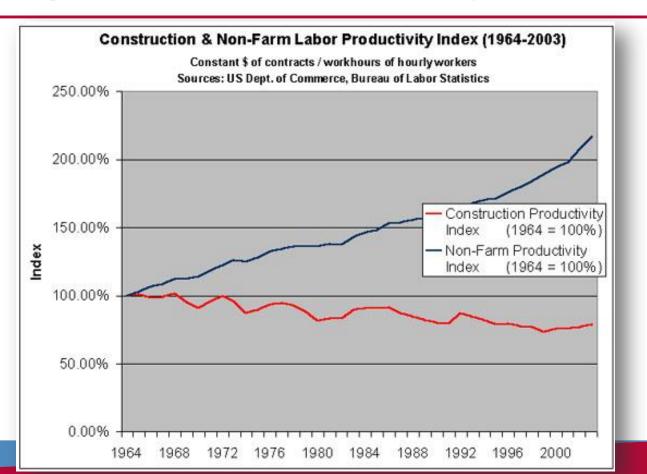
2014 - 2015







Challenge: Lower Productivity





Challenges: Workers Not Paid Fairly

- Movement to contract labor driven by "lowest bid" mentality, resulting in avoidance of
 - Hourly/overtime pay
 - All payroll taxes
 - Workers' compensation insurance
 - Employee benefits
- Downward pressure on wages
 - Journeyman carpenter earns today what he was paid in early '80-s.



How It Impacts Your Projects

• Higher demand = Higher price Cost Overtime premiums + Higher OCIP Schedule • Fewer workers = Less production Untrained staff + less supervision = Quality More rework, expectations not met Less supervision + less training = Safety higher safety risk



The Bottom Line

We must do more to recruit, train and retain craft workers to meet the demands of our industry.









Solution for a Sustainable Workforce

The Solution



Partnering Today to Ensure Tomorrow's Workforce



Mission

Create an alliance where socially responsible Owners, Contractors and Specialty Contractors can positively affect the growth of a sustainable workforce of the commercial construction industry.









Strategy

- Demand Driven Model
- Owners Must Demand It!
- Think Safety or LEED
- Moral
 Financial
 Requirement



3-Step Implementation

STEP 1: Financial Security, Health and Well-Being

- Pay by the hour with overtime in lieu of piece work payment (contract labor)
- Provide worker security by paying unemployment taxes, providing workers' compensation insurance and contributing to social security



3-Step Implementation

STEP 2: Safety Training

- Set standards for the construction workforce
- All craft workers have OSHA 10-hour training
- All on-site supervisors have OSHA 30-hour training
- All craft workers have 5 hours of C3 safety curriculum





3-Step Implementation

STEP 3: Craft Training

Complete the C3 self-assessment craft training checklist







Proven Results

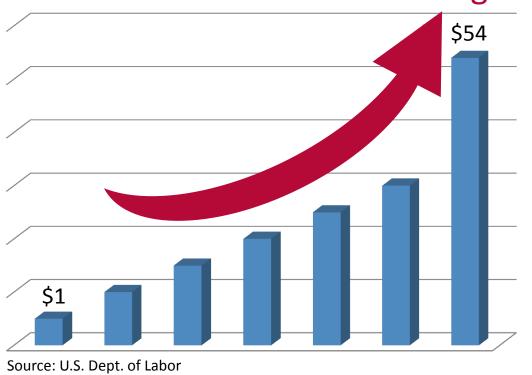
Studies Show Training Enhances Performance & Project Execution

- Productivity by 24%
- Turnover by 43%
- Job site absenteeism by <u>59%</u>
- OSHA recordable injuries by 90%
- First aid cases by 90%



Proven Results

Construction Workforce Training ROI



Let's put that savings to good use!



Tomorrow's Workforce

Trained • Safe • Sustainable







Benefits to the Owner

Benefits to Owners

TANGIBLE

Easier dispute resolution

INTANGIBLE

- Social Responsibility
- Lead by Example

- Industry Support
 - Influence Education Sector



Case Study: UT MD Anderson

Zayed Building for Personalized Cancer Care

- 12-stories, 615,000 SF
- 2 laboratory wings & 2 office wings surround a central core
- 32 months of construction
- 2,500 workers





Implementation at Zayed

- Verify Paycheck Stubs
- On-site OSHA Training





Benefit: Safety

Tradesmen Trained

- 622 in C3 5-Hour Focus Four
- 1,008 in OSHA 10-Hour Training
- 274 in OSHA 30-Hour Training





Benefit: Quality

Past MDACC Projects

5-10 Owner/Design Team Members Performing Punch List

Zayed Project

1 Architect & 1 Owner Rep Performing Punch List

"The punch list process on the Zayed project has been the best I have ever experienced" Sean Crane -HDR



Benefit: Schedule



 Added \$60 million worth of Phase 2 build-out in the same timeframe as original building schedule



Case Study: MD Anderson CABIR

Project	Avg. # of Bids per Package	Man Hours	Recordable Incidents	Lost Time Incidents	Claims Cost per Manhour	Cost in Incidents Claims
MD Anderson CABIR Ph I/Ph II	4	639,829	8	1	\$0.13	\$80,079
MD Anderson CABIR Ph III C3 Project	5	303,631	3	0	\$0.03	\$10,520







Collaborative

Participants & Supporters

Owners







Industry







Employers



MAREK
Shaping the Industry for 5 Years

















SpawGlass







Chapter

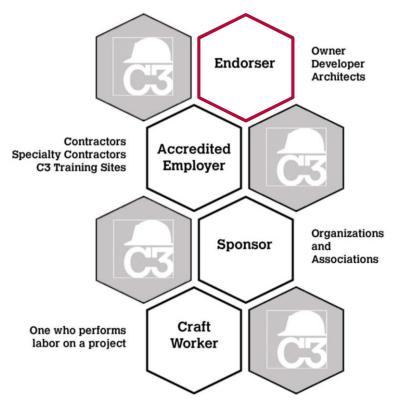








You Can Influence the Market



- Leaders have a long-range view of the industry
- Leaders have the courage to show the way and lead by example when it may be unpopular to do so



How Can You Participate?

- Demand C3 Accreditation on Your Projects
 - Endorse compliance with hourly payroll practices
 - Endorse compliance with safety training standards
 - Allow C3 to audit jobsites for compliance



How Can You Participate?

Demand C3 Accreditation on Your Projects

- Complete endorsement form at: www.constructioncareercollaborative.com
- 2. Include C3 General Conditions and Specifications in all of your contract documents. (Download from C3 web site)
- 3. Educate your personnel, project managers, architects, engineers, and contractors on the importance of C3

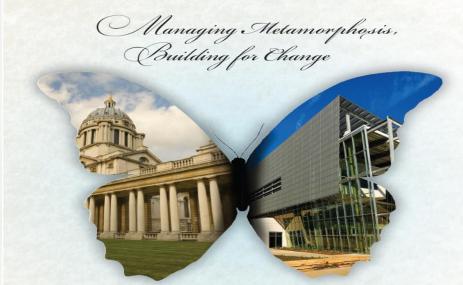




For more information:

www.constructioncareercollaborative.org





Seminar Evaluation

We hope you enjoyed this session...

Please take a moment to complete the evaluation form.

Thank you!

