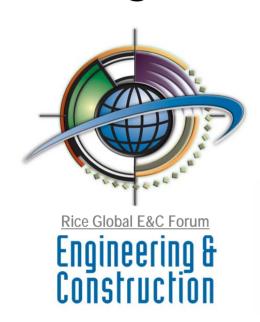
"How Will Project Execution Change in the Next Five Years?"



Ray Piper MCMI PMP





Well the truth is.....

I have no idea!

...but at least I'm honest!





Recent Comments.....

- "We don't worry about project cost because if our projects overrun, we just increase the rates to the customer."
- Can we all do that?
- For how long?





Recent Comments.....

- "We have a 45% contingency on our projects and we still overrun them."
- Do they have any competition?
- For how long?





Recent Comments.....

- "We cannot tell if changes are down to us or the client so we eat them. We don't know if our projects come in under budget."
- Have we learned nothing about Scope Definition and MoC?





Project Management.....

- PMI is now 36 years old the oldest Chapter is here in Houston.
- PM has been around longer than that and many of the tools are over 50 years old.
- 156,895 members worldwide
- 108,005 PMP certifications worldwide





Project Management.....

Recent <u>PMI Survey</u> of 103 Presidents, VP's and Directors:

- 40% use outside PM's and consultants to manage projects because they lack the skills in-house.
- Less than 50% have a PM career path in place
- 75% of the career paths were informal





Some Changes.....

- It is not enough to have a PM who is a Type 'A' personality
- PM's now have to employ the Arts and the Sciences using both sides of their brain!

Leader
Engineer?
Soft Skills
Right Brain

Manager Engineer Hard Issues Left Brain

Arts





Some Changes.....

- PM Methodology used for consistent execution
- There are fewer Accidental PM's but more contract PM's
- PM training is more available no followup
- PM is now a career path in some companies
- Encouragement and incentives for PM's to get certified



Some Changes.....

- Emphasis on Portfolio/Program management Enterprise
- Greater emphasis on the 'Knowledge Areas'
 - Scope Management
 - Integration Management
 - Communication Management
 - Etc. etc.
 - Risk Management threats & opportunities
- Standardized nomenclature





- Aging engineering society in US
 - Average age 47 in US
 - Internationally it is 37
- Engineers in their 30's good engineers but with little experience
- Engineers in their 50's wide range of experience but no company longevity and motivation
- Owner's only want experienced engineers 10 to 12 years minimum
- Who pays for training them?





- Employees are losing as many as 3 hours per day looking for their stuff – information they need to do their jobs.
- Employees bogged down with a plethora of emails.
- Projects are more Global with more Virtual Teams rather than the traditional Co-located Teams.
- Need for management systems that enable us to work smarter not harder.





- Senior mgmt are not experienced in PM and are not always asking the right questions.
 - Schedule & cost Why not Scope?
- PM's are not supplying the feedback required by senior mgmt to run the enterprise.
 - Timely and accurate cost data

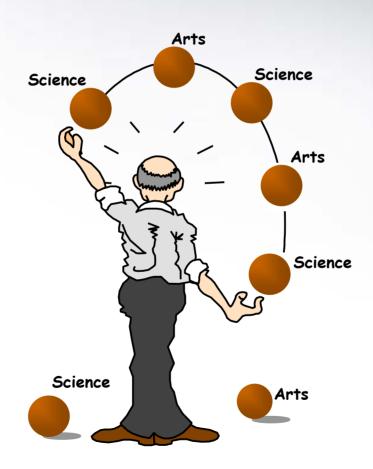




- As more EP&C projects are overseas, it is becoming more difficult to offer meaningful careers to US citizens graduating.
- Government tax on expatriates. working overseas is making it more costly to position project execs. on foreign projects



.....and the Industry experts say......







Last Ten Years

- Decade of 'solidly unprofitable growth' for many companies
- Return on capital (ROC) has not been great despite many efforts
- Poor performance on asset development
- New reservoirs are less profitable than before
- Oil prices are higher than ever \$58 to \$105?
- Wide range of results indicates a certain volatility and volatility erodes rationality of deciding what projects to approve





Self Inflicted?

- Somebody somewhere usually very high in the company – gives promises to the financial analysts on what is going to happen, and when.
- Sometimes a career building opportunity for a 'high flyer'
- Failure to harmonize the many disciplines and functions that populate the asset development process



World Class Poor Practices

- Projects are schedule driven rather than data driven
- Aggressive appraisal strategy (reducing appraisal cost/time while 'managing the risk')
- Poor average level of front end loading for facilities and drilling
- Minimum owner involvement



World Class Poor Practices (cont.)

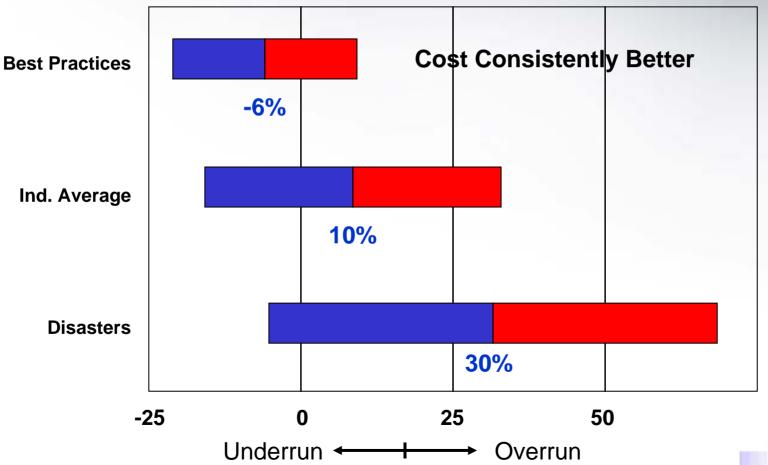
- Often have wholly inappropriate contracting strategies
- Everyone caught up in company politics
- All ignored what the company knew were best practices. (Only 6% followed them.)



World Class Best Practices

Ref: Ed Morrow – IPA (Upstream 5/23/03 by Adrian Cottrill

Cost Asset Growth

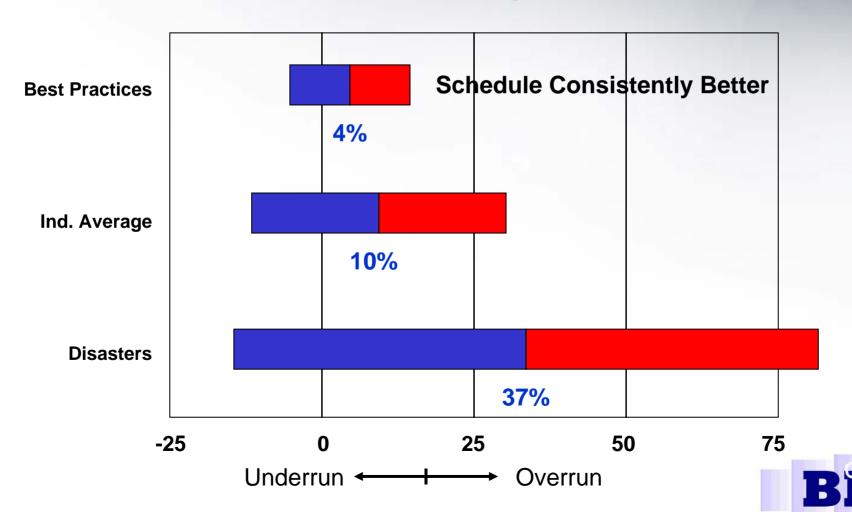




World Class Best Practices

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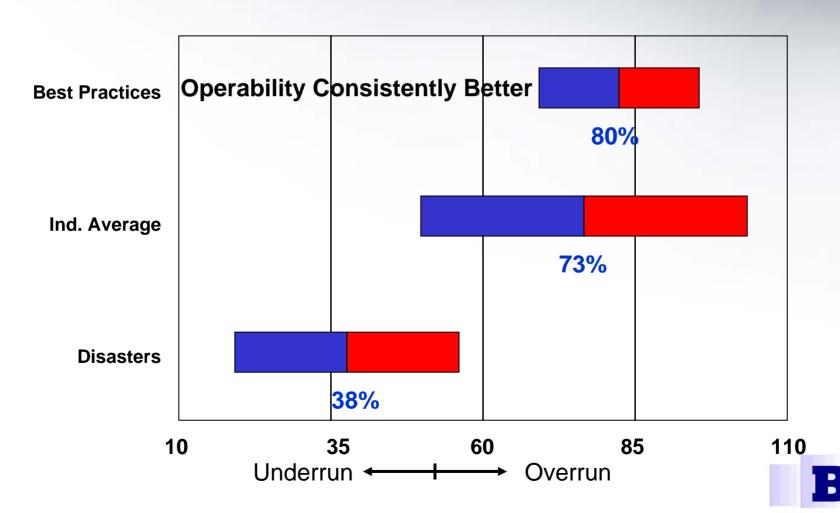
Schedule Slip



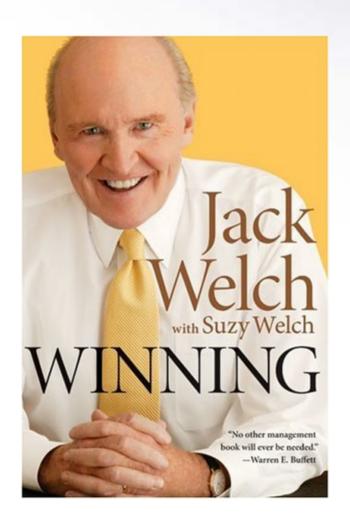
World Class Best Practices

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Five Year Operation as a % of Plan







20% - Encourage nurture and compensate - Winners

70% - Encourage to them be in the 20%

10% - Be honest with them and give them the news





Considering Management of Projects;

 What are the three key issues facing E&C companies domestically?

 What are the three key issues facing E&C companies internationally?





Considering the three issues;

 What is your company doing now to deal with these issues today?

 What are you doing now to be successful in 2010?







Feedback will be posted on the web site; www.forum.rice.edu

