#### Advanced Design **Project Management**



Steven C. Thweatt Vice Chancellor for Administration (emeritus) University of Colorado Boulder Steven.thweatt@colorado.edu (720) 525-8638



- Colorado
- Georgia
   North Carolina • Louisiana
- Private Practice 15 years
- Higher Education 27+ Years
  - Duke University 6 Years
    - Director Facilities Design Office
  - Assistant Dean Facilities University of Colorado -13 Years
    - Director PDC
  - Emory University 5- 1/2 Years AVP PDC
  - University of Colorado -3 Years

### **Resources Available**

- Design Guidelines
- Construction Standards
- Project Checklist
- Project Management Service Levels
- Consultant Information Packet
- Quest for Quality Guidelines
- A/E Quality Assurance Program
- A/E Fee Guidelines
- A/E Agreement
- Review Reminders
- A/E Performance **Evaluations**

http://www.colorado.edu/facilitiesmanagement/appa/



Revenge of the Right Brain!

#### What are your Goals? My Goals:

Understand the Design Process Manage the Design Process

#### **DESIGN PROJECT MANAGEMENT**

#### **Project**

- Traditional Project
- Design / Bid / Build
- Major Project

#### <u>Seminar</u>

- Programming Complete
- Project Approved
- Project Funded
- Process Ends @ Bidding



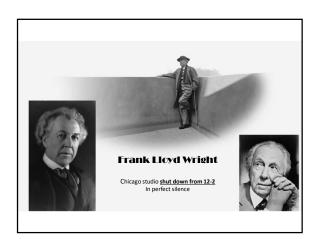
#### Seminar Assumptions

APPA Ir	ารt Ac	lv. Desig	າກ Proi.	Mgt.

## Architectural Education APPA Institute Design Project Management <u>Overview</u> **Design Process Project Team** Design Process Tools **Deferred Maintenance** or Capital Renewal? Managing the Process

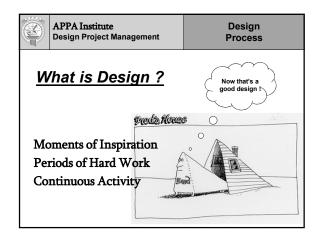
APPA Institute Design Project Management	Design Process
Part 1-Design Process	Amon Amon Fig.
<ul> <li>Design Process</li> <li>Project Schedules</li> <li>Project Deliverables</li> <li>Designing For Value</li> </ul>	"Inconvenience Store"

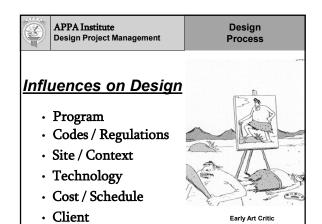


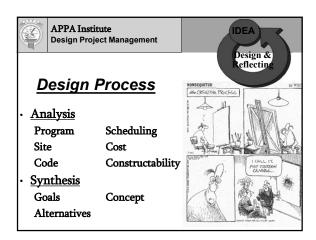


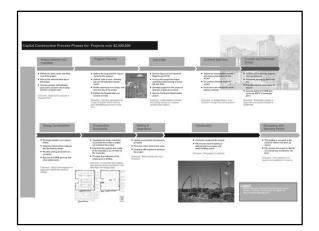


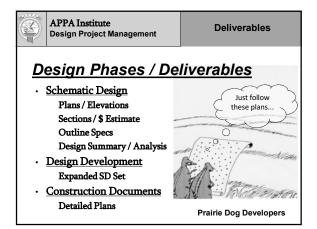


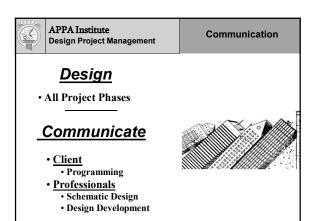


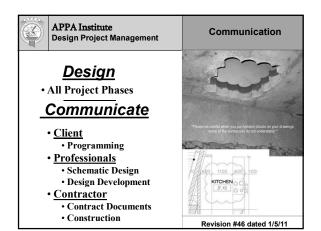














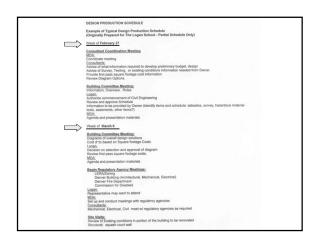
Schedules

#### **Project Schedules**

- · A/E Selection
- · Contract Negotiations
- · Schematic Design
- $\cdot \ \ Design \ Development$
- · Construction Documents
- $\cdot \ Bidding / \, Contract \, Award$
- Construction
- · Close Out
- · Warranty Period



At this rate...you'll never finish on tir





Design for Value

#### **Designing For Value**

· Maintainability







#### **Designing For Value**

- ${\boldsymbol{\cdot}} \ \ Maintain ability$
- · Life Cycle Cost
- · Value Engineering

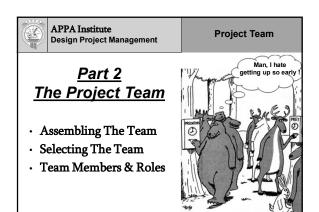




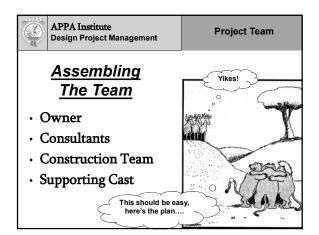


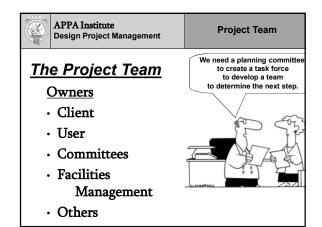
I call it "Value Shifting"

## APPA Institute Design for Value Design Project Management Value Management Approach • <u>Tier 1</u> · Gypsum Board · Lighting Package • Direct Purchase Tier 2 · Relocate Plumbing • <u>Tier 3</u> "Tell you what skeeter; It's about quittin' time and family feud is almost on. Just ram that thing right through it. It's 10 foot underground, ain't nobody ever going to see it. ~ Utility Contractor, circa 1976 Scope Reductions **APPA Institute Design for Value Design Project Management** Ned Beally, of Beally Construction Co., helps his children with a Lego Mindstorms robotics project. **Designing For Value** · Maintainability Life Cycle Cost · Value Engineering · Present Value Oh big surprise. Another announcement of cost overruns and delays.



Wildlife Day Shifts





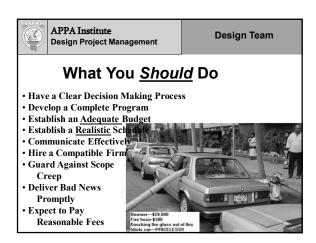
APPA Institute Design Project Management	Project Team
Owners  • Experienced  Educated / Involved  Educated / Uninvolved  • Inexperienced  Uneducated / Involved  Uneducated / Uninvolved	Educated  BI EU  Payloying  Uneducated

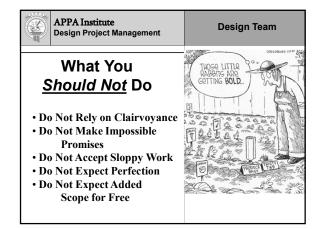
APPA Institute Design Project Management	Consultants
What is a Consultant?  Professional Advice Knowledge / Expertise Leadership (transformational)  Doing the Right Thing Inspiring Management (transactional)  Doing Things Right  Day to Day Activities	Leadership Management

APPA Institute Design Project Management	Design Team
The Design Team  Designers Architect - Usually Prime	TO NOT MAAIC. TO NOT MAAIC. TO AM ACQUIRED GELLI-

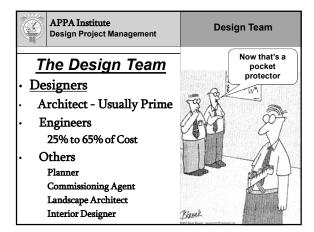


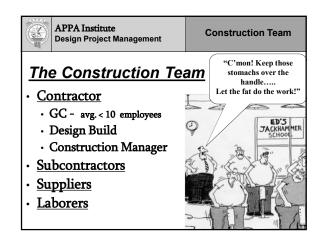
6. Low Quality Product
7. Slow Response
8. Slow Review
9. Weak Leadership
10. Close Out

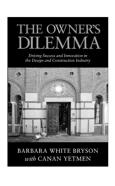




APPA Institute Design Project Management	
Architect Expects	Architect May Get
Clear Direction	Ambiguity
• Instantaneous Decisions	Extensive Collaboration
Tightly Defined Scope	Scope Creep
Comfortable Budgets	Inadequate Budgets
• Fair Treatment	• Unreasonable Contracts
Profitable Fees	<ul> <li>Gift Opportunities</li> </ul>
<ul> <li>Quality Design Expectations</li> </ul>	<ul> <li>Low Design Expectations</li> </ul>
You Expect	You May Get
• Exceptional Service	Nonchalance
Adherence to Budgets	Budget Busters
Meeting Schedule Milestones	• Delays
Comprehensive Services	<ul> <li>Requests for Additional Fees</li> </ul>
Complete Drawings	<ul> <li>Errors &amp; Omissions</li> </ul>
Cost Effective Design	Extravagance





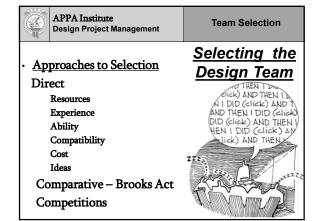


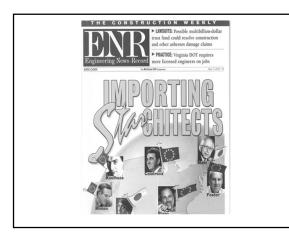


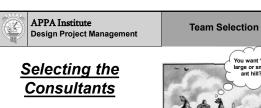
#### The Project Team

Supporting Cast
 Finance Accounting
 Insurance / Risk Mgt.
 Regulators
 Legal
 Others



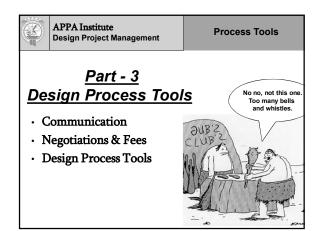






- $\cdot \ \, {\bf Owner \, Selects}$
- · Prime Selects Subs
- Combination





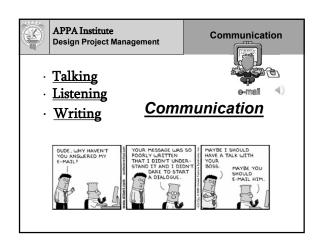
APPA Institute Design Project Management	Communication
<u>Communication</u>	Effective communication
• <u>Talkin</u> g	= <u>80%+</u> of project problems
• <u>Listening</u>	
	\$ \$ a 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$



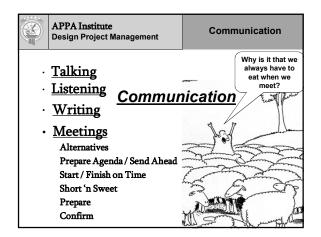


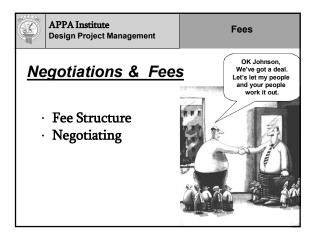
People Only <u>Hear</u> Every 3<sup>rd</sup> Word

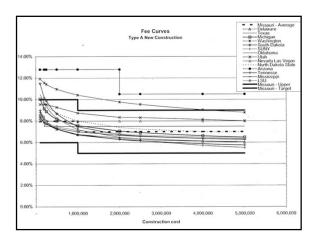
People Only <u>Retain</u> <u>Every 5<sup>th</sup></u> Word...

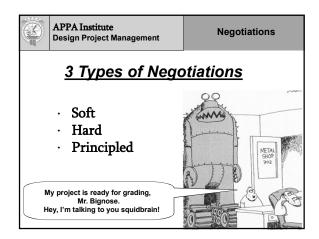






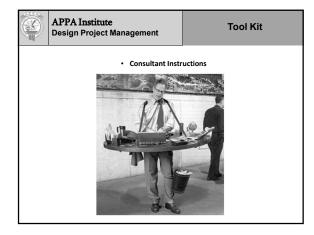






	Soft Negotiation	Hard Negotiation	Principled
The Goal	Reaching and Agreement	Winning	Mutuality: A Wise Outcome
Participants	Friends	Adversaries	Problem Solvers
About the Relationships	Make concessions to cultivate the relationship	Demand concessions as a condition of it	Separate people from the problem
Trust of Others	You do	You do not	Proceed independent of trust
Your position	You change readily	You dig in and hold	Focus on interests, not on positions; explore interests
Your bottom line	You disclose	You hide and mislead about	Avoid having a bottom line
To reach agreement	You accept one- sided losses	You demand one- sided gains	Invent options for mutual gain
You insist on	Agreement	Your position	Insist on using objective criteria; yield only to principle
Contest of Wills	You try to avoid	You try to win	
Pressure	You yield to	You apply	
The Architect's Fear	I'll probably lose	I'll endanger the relationship	





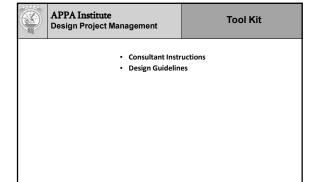


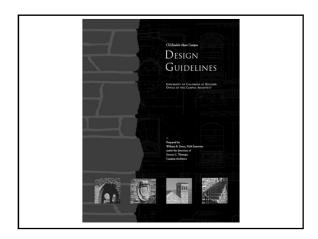
Consultant's Information Packet

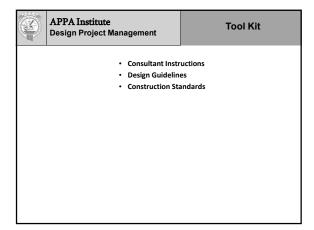
Core Letter
Communicating
Project Contraction Process
Capital Construction Process
Reviews of Architectural Plans and Specifications
Academic Calendars
Other Materials
Campus Master Plan
Campus Parking Map
Campus Visitor Map
Body & Soul: Architectural Style at the University of Colorado at Boulder

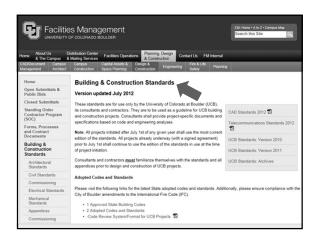
Cover Letter:
The Constant's Information Packet is available to help designers understand the process and procedures of the University of Colorado at Boulder.

Please review this material before the lock-off meeting so that we may answer any questions you may have. Be sure as you start this project, that you have a complete and current copy of the UCB (University of Colorado at Boudder) Standards. These have been put together to assist you, sharing with you our experience and needs. These standards are frequently updated and it is important that you use the most up-to-date version in preparing plans and specifications. Also, let us share a couple of key thoughts about your project team and project management on campus.









APPA Institute Design Project Management	Tool Kit		
Consultant Insti     Design Guidelin			
Construction St     Planning Templ	andards		
		•	
		]	
CU Budget Plann	ning Tool		
http://www.colorado.edu/facilit	iesmanagement/appa/		
		]	
		_	

APPA Institute Design Project Management	Tool Kit	
Consultant Instr	ructions	
<ul><li>Design Guidelin</li><li>Construction Sta</li></ul>		
<ul><li>Planning Templa</li><li>Service Levels</li></ul>	ate	

### Facilities Management

University of Colorado at Boulder

#### 1. Minimum service level:

- In this service option, the client can provide the project management and coordination services for their project with the following minimum involvement from Facilities Management:
  Construction permitting,
  Inspections,
  Change order processing (the client can negotiate change order costs),
  Environmental site assessment and abatement requirements through EH&S,
  Projects must adhere to the UCB construction standards with deviations specifically approved by the Executive Director of FM and FM must have the ability to verify compliance,
  Libility outages.
- Utility outages,
   Code compliance including project reviews by code officials (Authorities Having Jurisdiction).

#### 2. Intermediate service level:

In this service option, FM must provide the minimum levels of services as outlined in service option
1 and the client can negotiate with FM for the level of services for the following:

Project budgeting and estimating,



#### APPA Institute **Design Project Management**

#### **Tool Kit**

- Consultant Instructions
- Design Guidelines
- · Construction Standards
- · Planning Template
- Service Levels
- Outage Notices

SCHEDULED WORK ACTIVITY AND SIDEWALK /VEHICULAR OUTAGE AT West Pleasant Street

Linda Fry -Hale Sciences Proctor

From: Gil Fike, Project Manager

Building: Hale, McKenna, and Old Main Buildings Start Date: Wednesday, August 14, and Thursday August 15, 2002

<u>Duration</u>: Full Time Pedestrian Walkway and Vehicular Traffic Interruptions 8/14/02 to 8/16/02

Reason:
Contractor will excavate and install the new water line in the lawn area west of Hale Science Building.
The traffic lane will be reduced to onelane and could experience minor delays during work activities and equipment

crossings.

Barricades and routing signs will be in place. The parking spaces
west of the Hale will be out of service. The service drive to Hale will be kept open and in service.

See the attached work activity sketch work area description. Machinery noise may occur during the work activity.

Contact: Gil Fike at 2-1431 for any questions.

<u>Customer Impact:</u>
This project will change the flow of pedestrian traffic For the period specified.

**Attached Map** 

APPA Institute Design Project Management	Tool Kit
Consultant Instr Design Guidelin Construction St Planning Templ Service Levels Outage Notices Design Reviews	es andards ate

APPA Institute Design Project Management		Tool Kit
<u>Design Revie</u>	<u>ws</u>	Schematic Design
		"Orifice Building"
Aesthetics		
Systems Concepts	100	
Maintainability	FIFE	THE STATE OF THE S
Value Engineering		That is one butt ugly building!
Budget		* * *
Schedule		THE STATE OF
Approvals		
1122101010		A A A

Review Reminders for the Client

# Program Plan Review: 1. Are client needs identified and met? 2. Is this affordable? 3. Will the schedule allow the facility to be delivered on a timely basis? 4. Have others in the department(s) or college reviewed this as needed? 5. Is the plan convincing for reviewers (up through CCHE)?

Schematic Design Review:

- 1. Does the layout work?
- 2. Are aesthetics OK?
- 3. Is it in budget?
- 4. Are systems (e.g., heating / cooling) meeting user needs?
- $5. \ \ Have \ others in \ the \ department (s) \ or \ college \ reviewed \ this \ as \ needed?$

APPA Institute Design Project Management	Plan Reviews	
Plan Review Coordinator Partime retiree  Email request for plan review  Log the request Establish due date Check for required information Reviewers log-in each morning to check for new notices  Plan review room w/30" HD monitor (all electronic)  PRC checks deadlines Emails comments to PM's  3-5 day turnaround	Current Process	
APPA Institute Design Project Management  Consultant Instr Design Guideline Construction Sta	es ndards	
Planning Templa Service Levels Outage Notices Design Reviews Project Checklist		
c. Facilities		1
Facilities Management University of Colorado at Boulder  Department of Facilities Management Office of Planning, Design & Construction  1540 30° Swet. UCB 453, Boulder, Colorado 80309-0453 Phane: (630) 492-4082  FAX: (303) 492-4082		
Project Task Checklist  Client initiates Work Order.		

Assistant Director receives Work Order from Facilities Management (FM) scheduling system.

The Project Manager (PM) receives a file folder from Administrative Assistant. Include a Work Order Information Sheet, Work Order Questionmaire and Warranty Report.

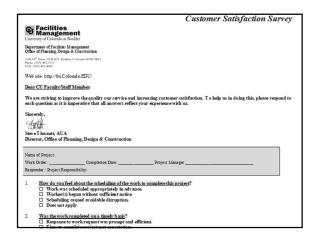
PM meets with Client to establish the scope of the project.

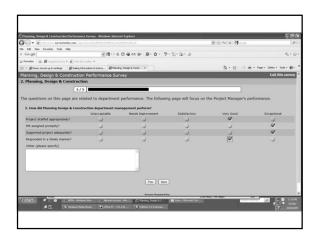
a. PM also talks with them about the recharge policy as referenced in the FM, Design and Construction website. (fm.Colorado.EDU/recharge\_policy.html)

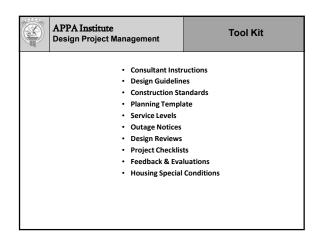
Environmental Site Assessment Report is done by Environmental Health and Safety (EH & S).  $\,2\,$ 

The Work Order Questionnaire is distributed by PM to Facilities Management and other University Agencies for review. 2 weeks allowed for review.

APPA Institute Design Project Management	Tool Kit	
Consultant Instruction	ons	
Design Guidelines     Construction Standa  Discrete Target Act	rds	
<ul> <li>Planning Template</li> <li>Service Levels</li> <li>Outage Notices</li> </ul>		
Design Reviews     Project Checklists     See the class of Section 1.		
• Feedback & Evaluati	UNS	
Facilities Management University of Colorado at Boulder		
Department of Facilities Management Office of Planning, Design & Construction		
1540 30° Street, UCB 453, Boulder, Colorado 80309-0453 Phone: (303) 492-5511 FAX: (303) 492-4082 CONTRACTOR EVALUATIO	NFORM	 
CONTRACTOR:		
As part of our ongoing commitment to provide better service	to our customers, we need to insure	
that the services we purchase are of the best quality possible timely and professional manner.		
Please describe your experiences with the contractor name negative). The contractor may be given the opportunity to res		
Describe fully the experience (including dates and any docum	entation you might have):	
Facilities Management		
University of Colorado at Boulder  Department of Facilities Management  Office of Planning, Design & Construction		
Ti-40 30" Street, UCB 453, Boulder, Colorado 80309-0453 Phone: (303) 492-5511 FAX: (303) 492-4082		
PROJECT TITLE:  Architect / Engineer Ev.	alustion	
FIRM'S NAME:	aruation	
INSTRUCTIONS:		 
The performance of each A/E under contract to the U evaluated following the completion of the project.	Iniversity of Colorado at Boulder	 
The Office of Facilities Design and Construction (F the attached Architect/Engineer Evaluation Forms.		 
by the project team, including representatives from Engineering & Utilities, Physical Plant Division,	FD&C, Facilities Planning, For Facility User(s), and others	









University of Colorado at Boulder

Special Contract Conditions for Construction Projects in Occupied Students Housing

Purpose

These Special Contract Conditions are required because this project involves construction within or adjacent to student residences. As such, the Contractor, all workers, subcontractors, deliverymen and anyone else coming on to the work site must be informed of the requirements to respect the students' privacy and right to the quiet enjoyment of their residence halls or apartments. The work must be completed in a manner that maintains the security of the residence halls or apartments, limits contact with the students, provides advance notice of any work that may adversely affect the residents, and limits communications about the project to those persons designated by the University.

General Rules

1. Contractor is required to comply with the University of Colorado's Sexual Harasament Policy, copy attached hereto and incorporated herein. Contractor's personnel must adhere to the University of Colorado policy and conduct themselves in a manner that does not constitute sexual harasament (as defined in the policy) as a result of interacting with and around the University of Colorado faculty, staff and students.

Contractor is also required to inform each subcontractor of the University's policy prohibiting sexual

No smoking in any residence hall or apartment building spaces. This includes living and dining spacestrooms, circulation areas, attics, mechanical rooms, basements and/or crawl spaces. Any smoking i be done outside the building and far enough away that smoke cannot enter windows or ventilation system



#### APPA Institute Design Project Management

**Tool Kit** 

- Consultant Instructions
- Design Guidelines
- · Construction Standards
- Planning Template
- Service Levels
- Outage Notices
- · Design Reviews
- Project Checklists
- Feedback & Evaluations
- Housing Special Conditions
- · Double Time / Fast Track



June 7, 2006

TO: FM Project Managers

Bill Ward, Assistant Director; Facilities Management Design & Construction Moe Tabrizi, Assistant Director, Facilities Management Engineering FROM:

SUBJECT: Double-time or Fast Track Projects

Introduction: Facilities Management leadership continues to receive campus client/customer feedback regarding time interval (length of time) to complete remodeling or new construction projects on campus. It is generally accepted that some delays are related to incomplete planning or incomplete input for required reviews and budget availability. However, due to the serial nature of our planning, design and construction process, adding all appropriate steps without unexpected delays would still amount to a long lead time. Many projects are not very time sensitive. However, there are a small number of projects that are very time sensitive. AND there is only a small window of time that they can be implemented on campus without resulting great impact on the campus teaching and learning mission.

Proposed Solution: For a very small percent of the given client's projects and based on prior agreement with PD&C leadership, all known and published project planning, design, project reviews and implementation intervals would be <u>short nend</u> by a goal of 50% squally for all functions. Of course, this solution requires better than normal, more complete siput from the client and more complete paperwork as input to the double-

APPA Institute Design Project Management	Tool Kit
Consultant Instr Design Guidelin Construction St Planning Templ Service Levels Outage Notices Design Reviews Project Checklis	es andards ate
Feedback & Eva     Housing Special     Double Time / F     Close Out Check	Conditions Fast Track

## Facilities Management University of Colorado at Boulder

Office of Design and Construction 1540 30° Street, UCB 453, Boulder, Colorado 30309-0453 Phone: (308) 492-5111 FAX: (303) 492-7136

#### CM-GC PROJECT COMPLETION CHECKLIST

The following is a <u>guide to assist in the final closeout of a CM/GC project</u>. The information is based on the Construction Manager and Architect/Engineer Agreements. Failure to include any items in this document does not alter the responsibility of the Construction Manager and Architect/Engineer to adhere to their Agreement they have with the University.

- NOTICE OF COMPLETION

  Aracles 16.1.1 (CM) & 1.8.28 (AE)

  1. The Construction Manager shall file a written notice to the Architect/Engineer that the Work, in the opinion of the Construction Manager, is complete under the terms of the Contract.

  2. The Construction Manager shall attach a list of items to be completed or corrected with this latter.
- letter.
  3. The Architect/Engineer shall notify the Project Manager.

PUNCH LIST WALK
Articles 16.1.2 (CM) & 1.8.29 (AE)

1. Within ten (10) days after receipt of the above mentioned letter the Architect/Engineer, the

8 C 0 E F G H 1 J	EMORY UNIVERSITY - CAMPUS SERVICES -	м		0		0	R	5	T	U	v	
	EMORY UNIVERSITY - CAMPUS SERVICES - BUILDING ACCEPTANCE - OCCUPANCY APPRO	VAL CHE	CKLIST							_		
Primary Responsibility Support Responsibility	PROJECT NAME POC PROJECT MANAGER FACEITES MANAGEMENT ZONE MANAGER COMMISSIONING COORDINATOR											
TEAM INVOLVEMENT	ACTIVITY	MOTICE	DATE	DATE OF	Project Start	180 DAYS+	100 DAYS	120 DAYS	90 DAYS	60 DAYS	30 DAYS	0
CP PMC PM CSA BHO BPO CUST ATOM A	1 90	HEQUIPES	MOTORIO	Even	Stern.	DA. s-	DATE	DATE	DATE	DA	DATE	
	Construction Tests											
	Roof Assembly test								=			⊏
	Window Assembly Water Test Special Equipment (Customer or Building Operations)	_	-	_	-	_	-	_	_			⊢
	Review location and required utility connections	-	_		-	-		-	-	-		Н
	Review special maintenance requirements		-					-	-			Н
	Fire alarm inspection by Engineer / Consultant and										100	г
	System Certification by (sub)contractor (NPFA13.72)	_	_	_	_	_	_	_	_	-		⊢
	Elevator Inspection by Consultant, PDC Project Manager and OCIP Safety Coordinator FM Elevator Coordinator for use by General Contractor											
	PDC Project Manager, OCIP Safety Coordinator and FM Elevator Coordinator for Emory Use and Operation											Г
	Chiller inspection by PDC Project Managers and FM.											Г
	Engineers and Mechanics for construction operation Chiller inspection by PDC Project Managers and FM	_	-	_	-	_	_	-	_	-	_	⊢
	Engineers and Mechanics for Emory use and operation											
	Endorsement of General Contractor's Insurance.											г
	Company for beneficial occupancy (if applicable)	_	_	_	_	_	_	-	_	-	_	_
	Endorsement of Emory Surety for beneficial occupancy- (6 accircable)											
	Contact Emory Risk Management to start Emory				-							Н
	Insurance coverage	-	_		-		_		_			H
												E
	EMORY HEALTH & SAFETY OFFICE	_	_	_	_	_	_	_	_	-		▙
	EHSO Inspection and Certification Fume Hoods	_	_	_	-	-	_	-	_	_	_	⊢
	Fulle Ploops  Mindford of African States and Atlanta Associations of				-	-	_	_	-		_	-







	APPA Institute Design Project Management	Tool Kit
	Consultant Instr	wations
1		
1	Design Guidelin	
1	Construction Sta	andards
1	<ul> <li>Planning Templa</li> </ul>	ate
1	<ul> <li>Service Levels</li> </ul>	
	<ul> <li>Outage Notices</li> </ul>	
1	<ul> <li>Design Reviews</li> </ul>	
1	<ul> <li>Project Checklis</li> </ul>	ts
1	<ul> <li>Feedback &amp; Eva</li> </ul>	luations
1	<ul> <li>Housing Special</li> </ul>	Conditions
1	<ul> <li>Double Time / F</li> </ul>	ast Track
1	<ul> <li>Close Out Check</li> </ul>	list
1	<ul> <li>Key Party</li> </ul>	
	Lessons Learned	İ

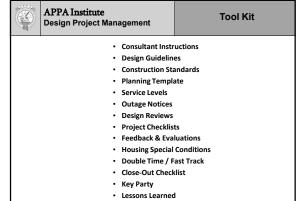


#### Lessons Learned - Math and Science Center January 9, 2003

- More user group education needed—at the end of the building process, I knew the things I needed to know at the start of the process! Here are the types of user education/support that would have been useful during the building process:
  - A. General introduction to the stages of the building process (programming, schematic design, design development, construction, etc). The schematic design, design development, construction, etc). The introduction should include: role of user group at each stage (including the importance of user's comments on plans); level of detail of the plans that emerges at each stage; processes and procedures for making changes to the plans; and the role of LEED in the design process.

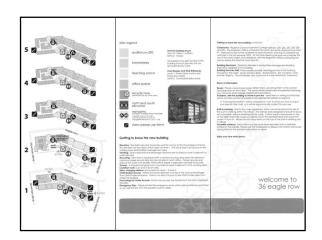
    B. Although trips to other institutions may be useful, we should institute an on-campus training program for new user groups. We have some great new facilities on campus and we should use them effectively. For example, a tour of the Mathematics and Science Center (M&SC) could illustrate:

    a. General departmental layout



• Move in Brochure





APPA Institute Design Project Management	Tool Kit
Small Project Ide	eas

#### University of Colorado @ Boulder Facilities Planning, Design & Construction Small Projects Ideas

In an effort to improve the overall delivery of small projects to our campus customers, the PD&C division is proposing a partnership with the College of Engineering and Applied Sciences to initiate a pilot program for small projects (under \$500K).

- We (Facman) should re-route small project requests from the Service Desk or web-based system to a "PM assistant". (This refers more to a function than a position. Since we are mader sowere baseparmy contrastint, we want to first ways to the high the project managers be efficient and cost effective.) The PM assistant can make a quick assessment of the scope a sepadite the assignment of the project to the appropriate project manager. PD&C should 5 the work order requests first rather than the service desk trying to guess what the scope mile. (Sometimes work orders are misdirected to the wrong shop due to the poor description work that is submitted, resulting in a delayed start.)
- PD&C will initiate a "one-stop shopping" model for project requests to streamline the
  normal process. The designated projects liaison for Engineering (Skip Wichart) should
  have one individual to deal with when initiating a project. If Skip initiates all
  Engineering projects and has one cortact to work with in PD&C, then the irritation of a
  project can be much simpler and quicker.
- Initiate a project monitoring system for projects that measures:



#### **APPA Institute Design Project Management**

#### **Tool Kit**

- Small Project Ideas
- Warranty Period

"At the completion of a project, we structure our 1 year warranty period to include the Facilities management team having direct contact with the GC's superintendent to address any issues that arise.

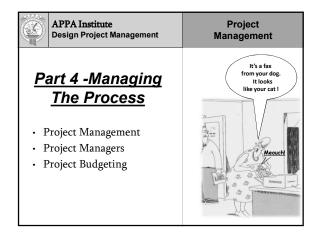
This removes having the project manager as a middle person, and the correction of problems occur in a more timely manner."

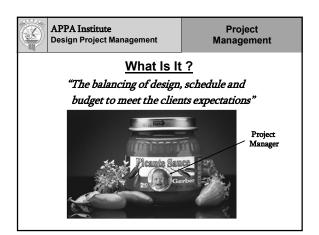
Tom Clow University of New England

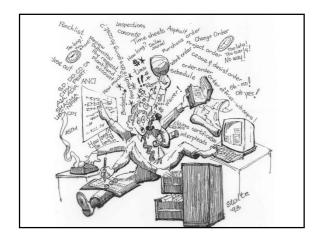


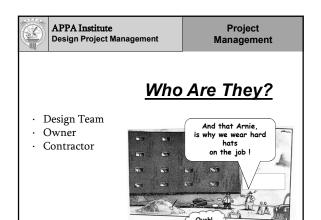
#### APPA Institute Design Project Management

APPA Inst. - Adv. Design Proj. Mgt.







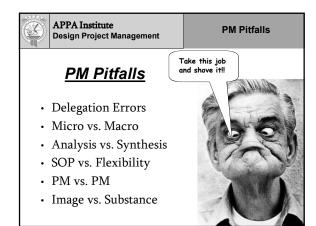




- Organized
- Broad Based
- Good Communicator (listener)
- Proactive
- Leads by Example
- Consistent
- Follows Through Holds People Accountable Delegates Well
- Patient & Wise



APPA Institute Design Project Management	PM Pitfalls
	Take this job and shove it!!
Delegation Errors	
<ul><li>No One Can do Better</li><li>I Can Do It Faster</li></ul>	
I Have to Fix it Anyway	1770
• It Takes too Long to Explain	
I'll be Disappointed	The state of the s
I'm Not in Control	ABBA
• It Won't be Perfect	



## Failure is not a way of life, it's a moment in time



Get over it

APPA Institute Design Project Management	PM Tips
PM Tips From the mouth of babe's	
	20
	8

- Paul,

  First, thank you for this nice email. I don't know that I have done anything special here, I have just tried to follow basic project management principals. Here are a few examples:

   (Eax. constant communication this has involved face to face communication and phone calls rather than just emails. Labo dis send the Cliner emails summarizing the project progress made every few days. He would then forward these onto his superior

   Fallow. Through I try to say what I will do and do what I say. If I promise something to the Client, I try hard foo follow up on my promise.

   Lead by zeample When challenged by the Client to have a Change Order free Tower portion of the project, I asked the consultant to meet me the space with his 100% documents. We discovered that there was a lot lead in his drawlings. Taking 100% documents. We discovered that there was a lot lead in his forwhise; Taking 100% documents to do when his was working as an architect on Campus.

   Palitike Attitude Although the Client can be challenging. I have enjoyed working with him and it to do possible about my work on this groject.

   Tall It like It has— I am not afraid to give my opinion to the Client. When I think he is making an arrest, I this. The decided to leaves some of the VAT Rooning rather han abable it and I told him I though that was a mistake. We are going to have to have some tough discussions in the Tower protron of the project. From a building envelope view point, this space is a 60% mess. We shouldn't spend \$5000 on the Conference Center if people are going to be too hos, to to codi in the space.

  Although this project is far from over, hopefully we are off on the right floot with the Client. Hope

Although this project is far from over, hopefully we are off on the right foot with the Client. I hope this is what you were looking for.



#### **APPA Institute Design Project Management**

**PM Tips** 

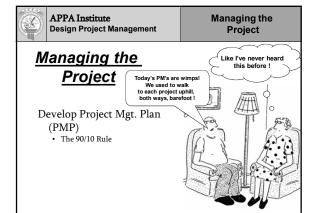
#### Managing Client Relations

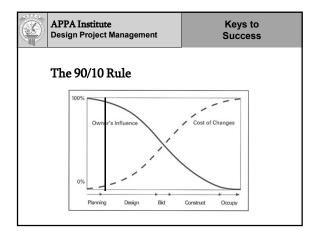
#### Leadership

#### Management

- 1. Know your client personally
- 2. Understand your client
- 3. Be a partner
- 4. Foster Trust
- 5. Demonstrate credibility
- Anticipate don't react
- 1. Keep your files organized
- 2. Respond to requests promptly
- 3. Meet your commitments
- Issue regular progress reports
- Be persistent when you need input

Most important - No Surprises!





#### stitute roject Management

Keys to Success

- $\bullet \quad PMP \; (\text{Understand Project and Desired Outcomes}) \\$ 
  - Vision/Goals/Objectives / Critical Factors for Success
     Communication Plan
  - Scope Schedule
  - Financial Plan

  - Quality Control Process
     Change Management Process
     Involve Key Stakeholders
  - · Identify Constraints
- Assemble Team / Empower the Team
- · Resolve Conflicts
- · Encourage Risk Taking

