



# An Efficient Method for Verifying Contractor Capability Maturity Model (CMM) Level

by: Carol Klingler of The MITRE Corporation

Tuesday, August 22<sup>nd</sup>, 2006

American Society for Quality (ASQ) — Washington, DC & Maryland Metro Section  
Software Special Interest Group (SSIG)

MITRE has been working with a large government agency for over five years to monitor contractor compliance with the Software Engineering Institute's (SEI) Software Capability Maturity Model (CMM), Software Acquisition CMM, and Capability Maturity Model Integration (CMMI<sup>®</sup>). During this time we have matured a process that allows us to reuse contractors' CMM appraisals and to conduct SCEs (Software Capability Evaluation) and SCAMPIS<sup>SM</sup> (Standard CMMI Appraisal Method for Process Improvement) only when required.

The Agency has a requirement that contractors must be compliant with the Software CMM, Software Acquisition CMM, and/or CMMI<sup>®</sup> to Level 2 and in some cases to Level 3. The CMM Verification process is performed annually on all software development contractors to verify this compliance. The goal of the CMM Verification process is to allow the Agency to efficiently monitor contractor CMM Level by:

- Minimizing resource needs on both Agency and contractor organizations
- Supporting reuse of contractors' objective appraisal data (SCEs, CBA-IPs, and SCAMPIS<sup>SM</sup>)
- Conducting SCEs/ SCAMPIS<sup>SM</sup> only when required

This presentation will describe the CMM Verification process and the lessons learned in using this process. The presentation will be of interest to anyone working with a government organization who wants to monitor the process maturity of their contractors as efficiently as possible.

Presenter: **Carol Klingler** is a Lead Software Systems Engineer at the MITRE Corporation. She has over fifteen years experience in software process definition, modeling, improvement and assessment. She has worked with numerous government agencies in defining, improving, and assessing their acquisition, software engineering, and systems engineering processes, and assessing the processes of their contractors. Carol Klingler was previously the Lockheed Martin Deputy Program Manager on the Advanced Logistics Program (ALP) and a member of a Lockheed Martin Process Improvement Group, defining, improving, and assessing processes for large and small projects. She has also worked on the DARPA STARS (Software Technology for Adaptable Reliable Systems) project, defining, modeling, improving, and automating software development and domain engineering processes.



## This Meeting Will Be Held at 3 Locations!

The MITRE Corporation  
7515 Colshire Drive  
McLean, VA

FDA Tech. Center  
16071-B Industrial Drive  
Gaithersburg, Maryland

The MITRE Corporation  
260 Industrial Way West  
Eatontown, NJ 07724

Driving directions and maps for all three facilities are provided below. There will be two-way video-audio conferencing between the locations. Now the VTC to the FDA room is working well. We are so sorry about any inconvenience for last meeting. We hope to provide the best services for all participants. All locations will have food. Please indicate which location you will be attending when you register.

**Sponsored By:** The American Society for Quality (ASQ), Washington DC & Maryland Metro Section (509), Software Special Interest Group (SSIG). Members of the ASQ SSIG include software quality professionals, software engineers, and others interested in applying quality principles to the field of software development. See our web page: <http://www.asq509.org/ht/d/sp/i/2499/pid/2499>  
We meet every other month, at the FDA Tech Center near Gaithersburg, Maryland and/or the MITRE facility in Tyson's Corner, Virginia.

**Registration:** Please register for the meeting by COB Friday, August 18, 2006. Contact Scott Ankrum at [ankrums@mitre.org](mailto:ankrums@mitre.org) or 703-983-6127 for the Maryland and Virginia sites, or contact Richard Eng at 732-578-6352 or [reng@mitre.com](mailto:reng@mitre.com) for Eatontown, NJ. Please include your company affiliation, your citizenship, and the location you plan to attend. You do not need to be an ASQ member to attend.

**There is no cost to attend. Pizza and soda will be served.**

### The Meeting Is Scheduled For:

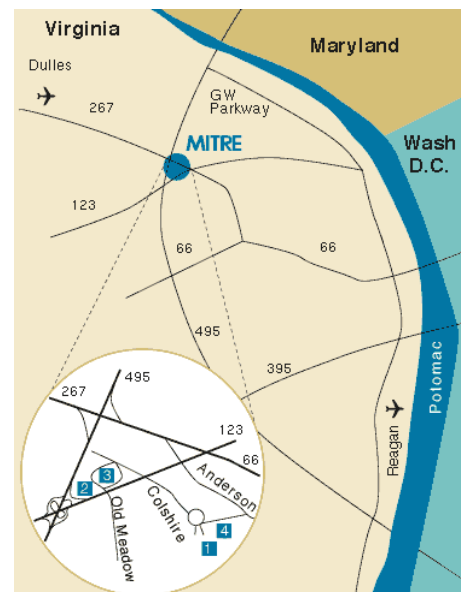
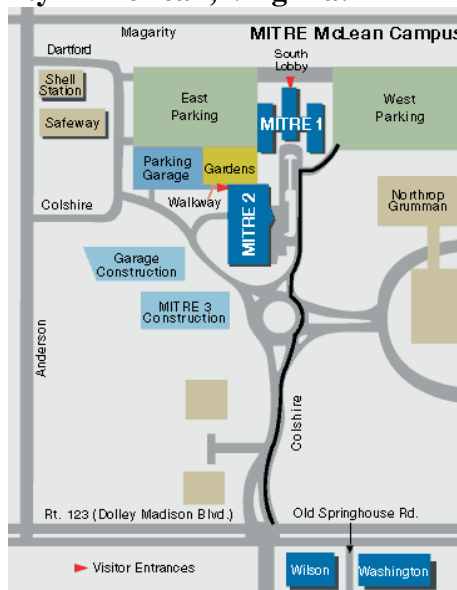
Tuesday, August 22<sup>nd</sup>, 2006  
6:30 - 7:30 Pizza and Sodas  
7:30 - 8:30 Program

### Will Be Held At:

MITRE building 2, Mclean, VA  
MITRE Eatonton, NJ  
FDA Tech. Center, Gaithersburg

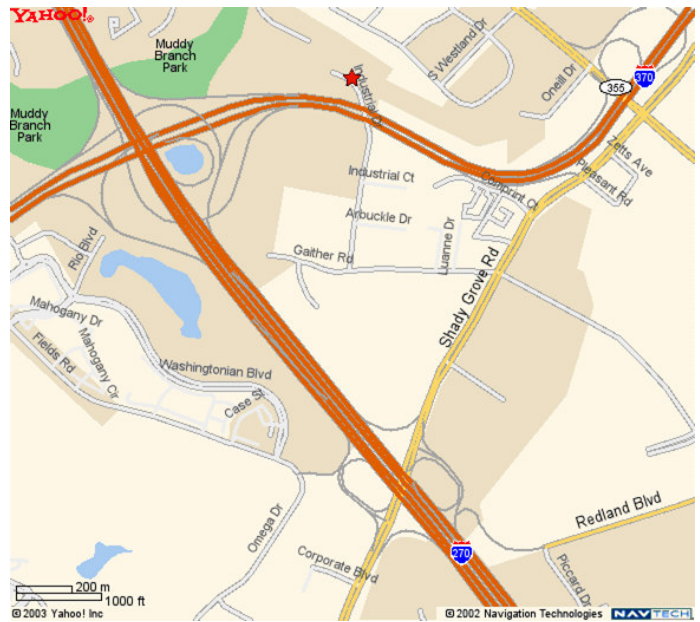
### Directions to the MITRE Facility in McLean, Virginia:

Take the Beltway, I-495 to Virginia. Take Exit 46B (McLean, Route 123). Take Route 123 North, (also called Dolley Madison Blvd.) and go to the second traffic light at Colshire Drive. Turn right on Colshire Drive and continue through circle on Colshire. Drive around the back of the building to the East (left) parking lot. The entrance is past the fountain, on the left. Additional directions can be found at: [http://www.mitre.org/about/locations/mitre1\\_map.html](http://www.mitre.org/about/locations/mitre1_map.html)



### Directions to the FDA Tech Center in Gaithersburg, Maryland:

From I-270 N or S, take Shady Grove exit east and proceed to Gaither Road. Turn LEFT on Gaither and proceed to first stop sign. Turn Right on Industrial Drive. You will cross over I-370. Go to the large Industrial building at the end of Industrial Drive and bear left to the end of the building. The meeting will be at the FDA Tech Center, 16071-B Industrial Drive, Gaithersburg, MD.

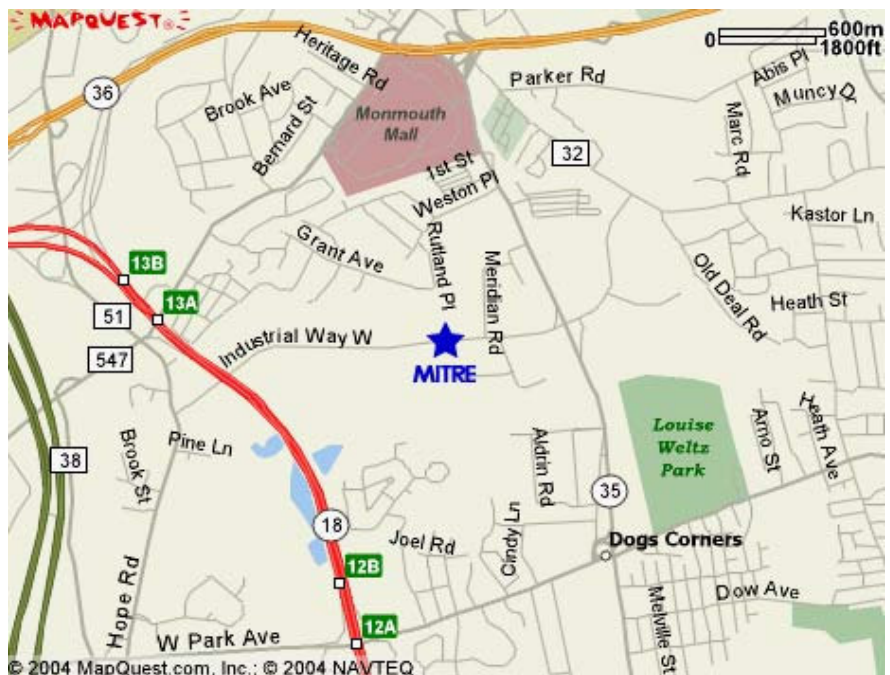


From Route 355 (Frederick Rd), take Shady Grove West and proceed to Gaither Road. Turn RIGHT on Gaither Road and proceed to first stop sign. Turn Right on Industrial Drive. You will cross over I-370. Go to the large Industrial building at the END of Industrial Drive and bear left to the far end of the building. The meeting will be at the FDA Tech Center, 16071-B Industrial Drive.

### Directions to the MITRE Facility in Eatonton, New Jersey:

#### From the New Jersey Turnpike

If traveling from the SOUTH, get off the Turnpike at Exit 7A (195 toward Shore Points). Take 195 East towards the ocean and shortly after 195 turns into Route 138 (approximately 35 miles) watch for Route 18 North (Eatontown). Take Route 18 North to Exit 13A (Wayside West/Wyckoff Road). At end of ramp, bear left. At first traffic light (Hope Road) make a left turn. Make second left turn onto Industrial Way. The MITRE Corporation is next to the First Atlantic Credit Union on the left hand side of Industrial Way. There is a MITRE sign out front. There are two buildings on the left side of Industrial Way. The first building is MITRE, the second building is TYCO. Take a left turn into the parking lot of the first building (which is MITRE) and head around to the back of the building. Our main entrance is there. There is a MITRE sign above the door.



If traveling from the **NORTH**, get off the Turnpike at Exit 11 (Garden State parkway exit). Follow the Garden State Parkway until Exit 105 (Eatontown). Follow the directions from the Garden State Parkway below.

### **From the Garden State Parkway**

Follow the Garden State Parkway from the North or from the South to Exit 105 (the exit numbers increase going from south to north). After paying the toll at Exit 105, make first right turn onto Hope Road. Follow Hope Road to Industrial Way (second left turn after crossing Wyckoff/Shafto Road). Make second left turn onto Industrial Way. The MITRE Corporation is next to the First Atlantic Credit Union on the left hand side of Industrial Way. There is a MITRE sign out front. There are two white buildings on the left side of Industrial Way. The first building is MITRE, the second building is TYCO. Take a left turn into the parking lot of the first building (which is MITRE) and head around to the back of the building. Our main entrance is there. There is a MITRE sign above the door.