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**From the Top Highlights:**

- Join the Pikes Peak Chapter for its annual professional development meeting with the Air Force Academy cadets. The cadets will present findings from their Operations Research class projects.
- More CPIM classes are on the way! See page 4 for details.

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## Operations Research Consulting at the Air Force Academy Capstone Project Presentations

Each spring, cadets from the Air Force Academy's Operations Research (OR) program work on capstone projects. The purpose of these projects is to introduce the cadets to the difficulties of real-world problem solving and to allow them to apply what they've learned in the OR program to a real planning issue faced by a real client. These cadets are among the most talented at the Air Force Academy, and the work they are doing will have a significant impact on their clients' operations.

This year, APICS has been invited to attend the cadets' project presentations at the Air Force Academy. The keynote speakers will be Professor Pat Driscoll and COL Darrall Henderson of the US Military Academy (USMA). COL Darrall Henderson is an Academy Professor in the Department of Mathematical Sciences. He is currently the Director of the Mathematical Science Center of Excellence. COL Henderson's branch is the Corps of Engineers. COL Henderson graduated from the University of Florida in 1981 with a Bachelors in Building Construction. He earned a Masters in Operations Research from Stanford University in 1990, a Ph. D. in Industrial and Systems Engineering (Operations Research) in 2001 from Virginia Tech, and a Masters in Strategic Studies from the United States Army War College in 2002.

The other keynote speaker, Dr. Pat Driscoll, is a senior professor at West Point. He is the Program Director and Professor of Systems Engineering. Dr. Driscoll joined the Department of Systems Engineering faculty team in 2001 as a Professor of Operations Research. He specializes in operations research, optimization, mathematical programming, and information modeling.

USMA keynote speakers are particularly appropriate this year as the two academies are initiating the first-ever joint capstone project to be performed by a team of Systems Engineering students representing each Academy.

### April Professional Development Meeting

**Date:** Thursday, April 20, 2006

**Location:** Lawrence Paul Pavilion at the Air Force Academy  
Open access for all via the Northgate entrance  
(see page 2 for directions)

**Time:** Registration: 5:00 p.m.  
Dinner: 5:30 p.m.  
Speakers: 6:00 p.m.

**Call Capt Pat Munson at 333-7769 for reservations.**

**Deadline: 12:00 p.m., Thursday, April 6, 2006**

If you must cancel, please do so by the deadline or you will be billed for dinner. Substitutions accepted until dinner begins.

**Dinner:** Western themed dinner with choice of chicken, beef or pork BBQ with sides, beverage, and dessert

**Cost:** \$12.00

# President's Corner

Our April professional development meeting (PDM) at the Air Force Academy promises to be another interesting event. In past years we have invited the students of the Operations Research department to present the results of their projects at an APICS sponsored PDM. The presentations have always been quite interesting and have covered a variety of topics. The cadets have worked on optimizing a newspaper's delivery system, developing a school bus transportation plan that could be easily modified as a new development was built out, and helped create a decision matrix for the harvesting of body parts from cadavers! While some of the topics may not directly relate to what you do at your place of work, the methods and tools the cadets employ can be applied to almost any endeavor.

This year, instead of the chapter sponsoring the cadet's presentations, we are going to attend the academy's capstone project presentations dinner on the academy grounds. It will be a great opportunity to see the cadets' latest work, meet their faculty and advisors, and enjoy a western-themed dinner. I encourage you to make your reservation early and pay particular attention to the security requirements. Allow plenty of time to get there, as you'll need to enter at the North Gate and it's a good distance inside the academy to the pavilion. Two

final words of caution: Cell phone use while driving is prohibited on military grounds and the speed limits are strictly enforced!

Over the last several years, our chapter has consistently held excellent PDMs that have been attended by an average of twenty-five members and friends. In my conversations with representatives of other chapters in our region and from around the country, I have learned that even much larger chapters often have no more than that attending their PDMs. We are always looking for new ideas for our programs and welcome your ideas – these events are for you. Planning is already under way for another year of outstanding events in the 2006 – 2007 year. The calendar is not yet full, so if you have an idea for a plant tour or other event, please talk to any of the board members at the PDM, or send me an e-mail. If you would like to assist in coordinating an event during the next year, please let us know. Your Board of Directors works hard to bring you meaningful programs each year and we welcome your input and involvement.



Don Simpson, CPIM

## Pikes Peak Chapter Welcomes Air Force Academy Cadets Since 1997

The APICS Pikes Peak Chapter has been proud to welcome the Air Force Academy cadets to its annual April professional development meeting since 1997. Each April, the Operations Research class has presented their capstone projects to APICS at our professional development meeting. This year, APICS has the honor to visit the Air Force Academy and hear these presentations first hand!

Prior to 1997, the April dinner meetings focused on presentations by local universities which described educational opportunities in inventory management and resource management.

### APICS Pikes Peak Chapter Mission Statement

To be a premier source of education and information in the operations and materials management field within southern Colorado.

## Directions to the Lawrence Paul Pavilion

Take I-25 west to USAFA North Gate Dr (Exit 156B). Travel west on North Gate Dr (approx. four miles). Go past the Overlook. At the Northwest corner, North Gate Dr becomes Academy Dr and turns south. Take Academy Dr south to the Chapel parking lot and park. The trail to Lawrence Paul Pavilion is immediately on the west side of Academy Dr. Hike for approximately one mile to the Pavilion. Cadets will be stationed at the Chapel parking lot to escort guests to the trailhead.

### About this Publication

The Pikes Peak APICS chapter newsletter is published monthly (except June, July, and August) as a service to its members and non-members. Its purpose is to inform them of the chapter's activities and to provide information to help them become more able practitioners in the field of operations/resource management. We strongly encourage articles and input from our readers. If you have any suggestions, comments, or critiques, or if you have a change of address or you do not receive this newsletter, please contact Michele Tubbs at [hmगतubbs@netzero.net](mailto:hmगतubbs@netzero.net) or call 578-1225.

# Education News



The following five modules are covered in the Certified in Production and Inventory Management (CPIM) certification:

## **Basics of Supply Chain Management.**

Candidates explore the basic concepts in managing the flow of materials in a supply chain. In Basics you get a complete overview of material flow, from internal and external suppliers, to and from your organization. Topics include elements of the supply chain, Just-in-Time (JIT), total quality management (TQM), manufacturing resource planning (MRP II), demand planning, and capacity management.

**Master Planning of Resources.** Candidates explore processes used to develop sales and operations plans and identify and assess internal and external demand and forecasting requirements. The course focuses on the importance of producing achievable master schedules that are consistent with business policies, objectives, and resource constraints. Topics include demand management, sales and operations planning, master scheduling, and measuring the business plan.

**Detailed Scheduling and Planning.** Candidates focus on the various techniques for material and capacity scheduling. The course includes detailed descriptions of material requirements planning (MRP), capacity requirements planning (CRP), inventory management practices, and procurement and supplier planning. Topics include recognizing techniques and practices of inventory management, mechanics of the detailed material planning process, planning operations to support the priority plan, planning procurement, and external sources of supply.

**Execution and Control of Operations.** Candidates focus on the areas of prioritizing and sequencing work, executing work plans and implementing controls, reporting activity results, and providing feedback on performance. The course explains techniques for scheduling and controlling production processes, the execution of quality initiatives and continuous improvement plans, and the control and handling of inventories. Topics include prioritizing and sequencing work, executing plans and implementing controls, authorizing and reporting activities for push and pull systems, evaluating performance, and providing feedback.

**Strategic Management of Resources.** Candidates explore the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain-related functions. The course addresses three main topics: aligning resources with the strategic plan, configuring and integrating operating processes to support the strategic plan, and implementing change. Topics include competitive market issues, choices affecting facilities, supply chain, information technology, and organizational design, configuring and integrating internal processes, and evaluating and managing projects.

## **Classes**

The Pikes Peak chapter offers CPIM review classes to members and to the public. See page 4 for the latest class schedule. These classes require a minimum of five students per class in order to cover expenses. In addition, the chapter must receive payment at least one week (5 business days) prior to the first class session so that class materials can be ordered.



Mike Heath, CFPIM

Prices are per student and include a Course Participant Guide including a CD-ROM with a practice exam and a certificate for a free APICS professional development dinner meeting. First time students also receive an Exam Content Manual with study hints for preparing for the certification exams and an APICS Dictionary. Typically these will be provided in the Basics of Supply Chain Management (BSCM) class. In addition, students in the Master Planning of Resources (MPR), Detailed Scheduling and Planning (DSP), Execution and Control of Operations (ECO), and Strategic Management of Resources (SMR) classes will receive the APICS Reprints booklet for the course. Additional materials may be provided at the instructor's discretion. A certificate of completion will be awarded to each student attending at least 75% of the scheduled class sessions (6 sessions for 8 week classes, 7 sessions for 9 week classes).

Students with a certificate of completion who fail to pass the certification exam may retake the class at no charge. You must submit copies of your certificate of completion and your APICS exam score sheet. No new materials will be issued. If you wish, you may purchase a new Participant Guide at a discounted price.

## **Payment**

Classes are \$330 for APICS members. Non-members may purchase a one-year membership (\$130 value) along with a class for the bundled price of \$445, or purchase a class without a membership for \$380. Payment is due *one week prior* to the first class session. Payment may be made by cash, check, money order, or approved corporate purchase order payable to the APICS Pikes Peak Chapter.

## **Withdrawal**

Students can withdraw for a full refund prior to the second class session with study materials returned in good condition. After that time, no refunds will be given. Students wishing to withdraw may do so by notifying the instructor or Mike Heath, CFPIM prior to the second class meeting.

## **Additional Public Classes**

Additional public classes outside the tentative schedule can be requested, providing the five student minimum is met.

## **Corporate Classes**

The Pikes Peak chapter can offer private classes to companies at negotiated prices. A minimum class size of four

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# Education News, cont'd.

(Continued from page 3)

students applies.

## Registration

Please contact Mike Heath at 668-8035 or email

him at [mheath@csu.org](mailto:mheath@csu.org) if you are interested in taking a class this spring or to get information on other APICS education offerings.

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## APICS Class Schedule

Course	Location	Starting Date	Registration Deadline
Master Planning of Resources (MPR)	TBD	Week of Apr 24, 2006	Mon, Apr 10, 2006
Strategic Management of Resources (SMR)	Entegris	Wed, May 3, 2006	Wed, Apr 19, 2006
Certified Supply Chain Professional (CSCP)	TBD	Mid Apr 2006	Mon, Apr 10, 2006

## APICS Review Classes Planned

The Pikes Peak Chapter is planning two classes beginning soon. They are:

### Master Planning of Resources

(MPR): The next course is planned to start the week of April 24, 2006. This will be presented from 6:00 to 9:00 p.m. at a location to be determined based on the students' needs. The registration deadline for MPR is April 10, 2006. When you register, please let me know if your company would be willing to host the class.

Strategic Management of Resources (SMR): This will be presented at Entegris on Wednesday afternoons from 2:00 to 5:00 p.m. starting May 3, 2006. With breaks for various holidays, the course will run through August 2, 2006. Please register for this course no later than April 19, 2006.

Two CPIM classes are currently in progress.

They are:

Basics of Supply Chain Management (BSCM): Six students are taking this course on Wednesday evenings, with Mike Schubert instructing. Synthes generously provided facilities to host the class, which will continue through April 5.

Execution and Control of Operations (ECO): Mike Heath is the instructor for this course, which meets Wednesday afternoons at Entegris. ECO will continue through April 12.

APICS introduced the Certified Supply Chain Professional (CSCP) program at the International Confer-



Mike Heath, CFPIM

ence in October. A description of the program can be found on the web site at [www.apicspikespeak.org](http://www.apicspikespeak.org). In January, the Pikes Peak Chapter initiated a CSCP study group with six students, two of whom are also qualified CPIM instructors.

Depending on the number of potential students, we plan to offer instructor-led review classes for CSCP starting in mid-April. The cost for these classes will be \$925 for APICS members or \$1050 for non-members. The non-member price includes a one-year membership in APICS Pikes Peak Chapter. The deadline for registering for this CSCP course is April 10, 2006. A minimum of four students will be required.

If you prefer to self-study for the CSCP, we can provide the CSCP Learning System to students in the Pikes Peak and southern Colorado region at discounted prices. Contact Mike Heath for details.

Testing for the CSCP consists of a single four-hour exam with 175 multiple-choice questions. Pencil and paper exams are scheduled for June 17 and December 2, 2006, at a location in the Denver area. These exams will cost \$550 for members or \$700 for non-members.

There are some prerequisites. To be eligible to sit for the CSCP exam, a candidate must meet at least one of the following criteria:

- Bachelor's degree or equivalent, plus two years of related business experience, OR
- CPIM, CFPIM, CIRM, or C.P.M. designation plus two years of related business experience, OR
- Five years of related business experience.

# Company Contacts



Mike Long

<u>Company</u>	<u>Contact</u>
Agilent Technologies	Greg Kruger
Atlas Pacific Engineering	Charles Burns
Atmel	Gale Johnson
BF Goodrich (Pueblo)	Rob Sanchez
Boyd Lighting Company	Cory Brown
Colorado Springs Utilities	Mike Heath
Colorado State Univ. – Pueblo	Prof. Peter Billington
Current	Roxi Smith
Entegris	Keith Midcap
FedEx	Doug Hasler
Goodrich	William Lawless
Intel	Trina Oyløe
ITT Systems	Denise Cornell
Lockheed Martin	Fred Frandsen
MAM-A	Quinn Lake
Oracle	Rod Emenaker
Plasmon LMS	Mark Bachman
Pueblo Comm. College	Madelyn Bruning
Pueblo Wood Products	Brad Dunmire
Quantum	Wayne Smith
Safetran Traffic Systems	Larry Jarboe
Schlage Lock	Myron Kastner
Synthes USA	Janet Rose
Trane Company	Mike Storm
UCCS	Dr. Mel Anderson
USAFA	Prof. Jim Lowe
Western Forge	Jim Souturas

If you are interested in becoming a company contact or have any questions regarding this program, please call Mike Long at (719) 473-7520 or email him at [mikel@magnumtool.com](mailto:mikel@magnumtool.com).

## Membership News

The Pikes Peak Chapter currently has 66 members— 42 are professional members and 24 are corporate members. I would like to welcome our newest members. They are **Steve Cohen with Western Scrap Processing** and **Lisa Machos with Goodrich**.



Michele Tubbs, CPIM

# Pikes Peak Chapter Board of Directors

### President

Don Simpson, CPIM

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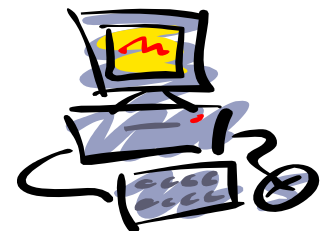
### Newsletter Editor/Director of Membership

Michele Tubbs, CPIM

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## Have Your Newsletter Emailed

You can have your newsletter emailed to you instead of a copy mailed. You'll also receive it days in advance of the mailed version! If interested, email Michele Tubbs at [hmgatubbs@netzero.net](mailto:hmgatubbs@netzero.net).



The newsletter is saved in the .pdf format and can be opened with Adobe Acrobat Reader. If you do not have Adobe Acrobat Reader on your computer, you can download it for free from [www.adobe.com](http://www.adobe.com).

The chapter will also have the newsletter on its web site at [www.apicspikespeak.org](http://www.apicspikespeak.org).



Pikes Peak Chapter  
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**We're on the Web!**  
[www.apicspikespeak.org](http://www.apicspikespeak.org)

## **APICS Pikes Peak Chapter Calendar of Events**

### **April 2006**

- 6 Registration deadline for Professional Development Meeting at the Air Force Academy
- 10 Registration deadline for Certified Supply Chain Professional (CSCP) class
- 10 Registration deadline for Master Planning of Resources (MPR) class
- Mid Certified Supply Chain Professional (CSCP) class starts the middle of this month
- 19 Registration deadline for Strategic Management of Resources (SMR) class
- 20 Professional development meeting at the Air Force Academy presented by the AFA cadets, COL Darrall Henderson, and Dr. Pat Driscoll
- 24 Master Planning of Resources (MPR) class starts this week

### **May 2006**

- 3 Strategic Management of Resources (SMR) class starts
- 9 Professional development meeting presented by the Air Force Academy cadets

### **June — July 2006**

No Professional development meetings scheduled

### **September 2006**

TBD See upcoming newsletters for more information