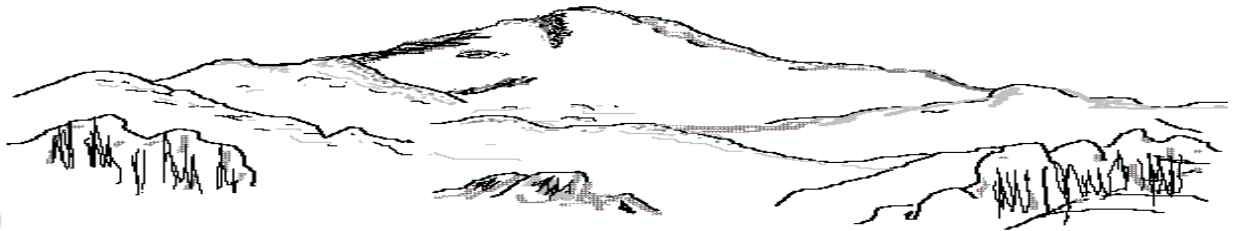


# American Society for Quality



PIKES PEAK SECTION 1312

January 2012

## January 11, 2012 Meeting

### Joint Meeting Pikes Peak ASQ, Chapter 1312 and Colorado Front Range Chapter of INCOSE

#### Speakers

**Carl Terry, INCOSE**

**T'Chris Gardner, PPASQ**

**Mary H Nunnally, AspenBio Pharma,  
Inc.**

**DeVry University**

**1175 Kelly Johnson Blvd.**

**Colorado Springs**

#### Schedule:

5:30 - 6:15	Dinner (COST \$8.00) & Networking
6:15 - 6:45:	1 <sup>st</sup> Presentation – choose a speaker
6:45-7:00	Break
7:00-7:30	2 <sup>nd</sup> Presentation – choose a speaker
7:30 - 8:00	Speaker Thank You' s & Announcements

## Meet the Speakers

### Mary H. Nunnally

#### “How To Screw Up Product Development Without Even Trying”

The best laid development plans can be sidelined by the use of data that is inaccurate or otherwise suspect. Mary Nunnally will provide insight into some of the pitfalls that result when data is faulty.

Mary H. Nunnally, PhD is the Vice President of Quality for AspenBio Pharma, Inc. She has 20 years of experience as a Quality and Operations Executive within the medical device, biomedical research product, veterinary medicine and pharmaceutical industries. She has extensive experience in the establishment and maintenance of ISO 9001 and ISO 13485 certified Quality Systems.

Mary has led teams in process development and scale-up feasibility assessments. Her laboratory expertise in analytical methods for the evaluation of lipid emulsions, proteins, mammalian cell cultures, DNA, RNA, viruses, & pesticides, such as HPLC, GC, ELISA, monoclonal antibodies, fluorescence microscopy, spectroscopic methods, & BIACORE biosensor methodology has assisted in innovative product development.

### T'Chris Gardner

#### “Testing Our New Robot Overlords”

Robots are supposed to be safe based on the “Three Laws”. Software testing has historically been based on decision trees. With new technologies like SIRI and other tools which “learn” from their human operators, how would you test the coming autonomous machines? This is a “fun”, future scenario-type topic. We'll present some industry standards and guesses. Then we'll poke holes in them.

T'Chris Gardner is an Adjunct Professor of Computer Science at Colorado Technical University and has been a Quality Professional for more than a dozen years. He is currently pursuing his doctorate in testing robotics at Colorado Technical University.

### Carl Terry

#### “Test and Evaluation – Verification and Validation, The Systems Engineering View of System Quality”

Inherent to the activities performed by Systems Engineers are the formal definition of program requirements (the “shall” statements in the formal specification documents) based on user defined need statements. Systems Engineers are also responsible for insuring and proving that the finished product complies with those shall statements AND meets the user needs that gave rise to them. These processes are known as verification and validation, and are parts of an overall process known as Test and Evaluation (T&E). T&E starts in the design phase and continues throughout development, testing and activation. T&E is the process by which the ultimate quality of goods and services is tracked and proven. This presentation sets forth an outline of the T&E process.

Carl Terry has over 40 years of experience in the flight training field as a simulator aeronautical engineer and as an integrated flight training program Systems Engineer. He developed the standards used world wide to define airline simulator performance requirements, and served as chief engineer for development of the training system (curriculum, training devices, and management system) used by the US Air Force and US Navy for Undergraduate Pilot Training. Carl has been awarded the INCOSE ESEP certification, the highest honor available to INCOSE members.

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The ASQ Colorado Springs Chapter has developed an email list of people interested in receiving notices when Quality, Regulatory and or Engineering jobs become available in Colorado or elsewhere in the nation. Job references and job descriptions are forwarded to people on the email list. Contact Les for additional information regarding this service.

**EDUCATION**

Check [www.asq.org](http://www.asq.org) for the most current Certification Exam date and deadlines!

Exam applications must be made directly to ASQ. For additional information see the certification section on the ASQ web site at <http://www.asq.org> or contact Brian Dahl, [Certification@ppasq.org](mailto:Certification@ppasq.org).

SECTION 1312 sponsors these exams at our local exam site. The exams are typically scheduled to be held in Room 260, Colorado Technical University 4435 North Chestnut, Colorado Springs, CO 80907, however locations for exams sometimes change. It is highly recommended that your travel time to the exam site be verified prior to exam day.

CONFIRMATION OF THE EXAM DATE, TIME AND LOCATION WILL BE SENT WITH YOUR EXAM PACKET AND WILL BE YOUR OFFICIAL NOTIFICATION.

CERTIFICATION	APPLICA-TION DEADLINES	EXAM DATES
Biomedical Auditor, HACCP Auditor, Manager of Quality/Organizational Excellence, Reliability Engineer, Six Sigma Black Belt, Quality Technician	Jan. 13, 2012	March 3, 2012
Calibration Technician, Quality Auditor, Quality Process Analyst, Quality Improvement Associate, Six Sigma Green Belt, Software Quality Engineer, Quality Inspector	April 13, 2012	June 2, 2012