MARCH
28 – 29
2020

Stanford Advanced Airway Management and Fiberoptic Course

Li Ka Shing Center for Learning and Knowledge, Stanford, CA

A Continuing Medical Education Conference
Presented by Stanford University
Department of Anesthesiology,
Perioperative and Pain Medicine

Stanford | MEDICINE

SPONSORED BY THE STANFORD UNIVERSITY SCHOOL OF MEDICINE

Conference Overview: stanford.cloud-cme.com/advancedairway

ANNUAL STANFORD ADVANCED AIRWAY MANAGEMENT AND FIBEROPTIC COURSE

This comprehensive, multidisciplinary, state-of-the-art course offers airway training to a national and international audience. It provides participants with the essential evidence-based knowledge and technical skills to manage anticipated and unanticipated difficult airway in the operating room, emergency department, and intensive care unit as well as in diverse clinical settings. The conference integrates various educational formats, including didactic lectures, hands-on practice, immersive, high fidelity simulation, Lunch and Learn discussions, and case discussions with experts and full audience participation. The course is ideally suited for the anesthesiologists, critical care, emergency medicine, and ENT physicians.

LEARNING OBJECTIVES

At the conclusion of this activity, participants should be able to:

1. Integrate into practice effective approaches and strategies for predicting and managing difficult airway, per latest evidence-based medicine data.
2. Apply advanced oxygenation techniques, such as Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE).
3. Develop skills for alternative ventilation strategies using supraglottic airway (SGA) devices, techniques for SGA-endotracheal tube exchange, and surgical techniques for rescue ventilation.
4. Enhance crisis resources management (CRM) skills for debriefing situations in practice.
5. Determine proper patient selection and preparation for awake flexible fiberoptic intubation (FOI).

TARGET AUDIENCE

This is an international conference designed to meet the educational needs of physicians specializing in anesthesia, critical care, emergency medicine, head neck surgery, internal medicine, otolaryngology, and pediatrics as well as anesthesia care providers, Certified Registered Nurse Anesthetists (CRNA), and Emergency Medical Technicians (EMT).

COURSE HIGHLIGHTS

- Over 30 evidence-based lectures, reviews, and case discussions
- "Bring Your Own Case": submit a challenging airway case for presentation at the meeting at stanford.cloud-cme.com/advancedairway
- 12 state-of-the-art difficult airway stations
- Integrated, 6 station fiberoptic intubation course, including preoperative endoscopic airway examination (PEAE)
- Immersive, high fidelity simulation
- Small learning groups with 3-5 : 1 participant-to-instructor ratio
- Ample time for each participant to practice and acquire new skills
- Q & A by the panel of experts

Become a Stanford H&N Anesthesia and Advanced Airway Management Program (SAAMP) insider and benefit from over 20 years of national and international teaching experience. Learn from the experts who teach advanced airway management daily!

SKILLS STATIONS INCLUDE

- Introducers
- Video laryngoscopes
- Light-guided intubation
- Supraglottic airways
- Intubating LMA
- Fiberoptic assisted airway exchange techniques
- Fiberoptic stylets
- Combined video intubation techniques
- Fiberoptic evaluation of the lower airway, and lung separation techniques
- Retrograde intubation
- Percutaneous and surgical emergency airway access
- Ultrasound-guided access to cricothyroid membrane
- Emergency supraglottic airway ventilation
- Advanced oxygenation techniques (THRIVE)
- Airway exchange catheters and staged extubation
- Pediatric difficult airway
- Difficult airway simulation scenarios

Please register early – space is limited!

Faculty

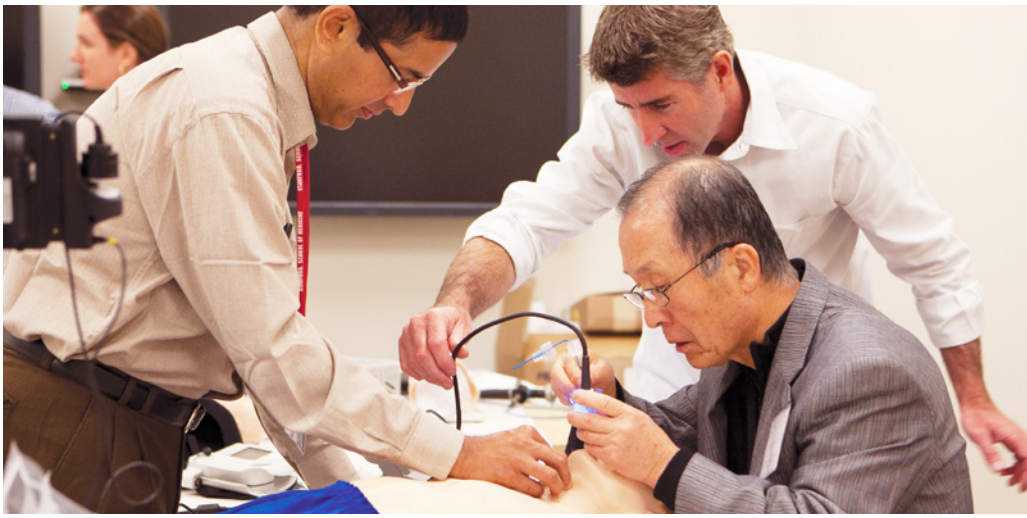
Course Director

Vladimir Nekhendzy, MD
Clinical Professor of Anesthesiology and Otolaryngology
Director, Stanford Advanced Airway Management Program

Course Co-Directors

Edward Damrose, MD
Professor, Department of Otolaryngology/ Head and Neck Surgery,
Stanford University School of Medicine

Amit Saxena, MD
Clinical Assistant Professor of Anesthesiology



Guest Faculty

Imran Ahmad, MD
Honorary Senior Lecturer,
King's College London
Clinical Anesthesia and Airway Management Lead Guy's Hospital, London

Davide Cattano, MD, PhD
Professor, Department of Anesthesiology
McGovern Medical School, UTHealth Houston
Anesthesia Service Chief for Head & Neck Surgery

Irene Osborn, MD
Professor of Anesthesiology
Chief, Division of Neuroanesthesia
Albert Einstein College of Medicine
New York, NY

Stanford Faculty

Naola Austin, MD
Clinical Assistant Professor of Anesthesiology

Jennifer Basarab-Tung, MD
Clinical Assistant Professor of Anesthesiology

Hannah Bechtold, MD
Clinical Instructor of Anesthesiology

Carlos Brun, MD
Clinical Associate Professor of Anesthesiology
Staff Anesthesiologist and Intensivist
Veteran's Affairs Palo Alto Health Care System

Alexander Butwick, MD
Associate Professor of Anesthesiology

Michael Chen, MD
Clinical Associate Professor of Anesthesiology and Neurosurgery

Tiffany Cheng, MD
Clinical Assistant Professor of Anesthesiology

Lynn Cintron, MD
Affiliate, Department of Anesthesia
Santa Clara Valley Medical Center

Erin Crawford, MD
Clinical Assistant Professor of Anesthesiology

David Drover, MD
Professor of Anesthesiology

Marc Gautreau, MD
Clinical Associate Professor, Emergency Medicine

Andrew Giustini, MD, PhD
Pediatric Anesthesiology Fellow

Sara Goldhaber-Fiebert, MD
Clinical Professor of Anesthesiology

Kyle Harrison, MD
Clinical Professor of Anesthesiology
Veteran's Affairs Palo Alto Health Care System

Meredith Hutton, MD, PhD
Clinical Instructor of Anesthesiology
Fellow, Stanford Head & Neck Anesthesia and Advanced Airway Management Program

Amit Joseph, MD
Clinical Assistant Professor of Anesthesiology

Elizabeth Koch, MD
Clinical Instructor of Anesthesiology

Vivek Kulkarni, MD, PhD
Clinical Associate Professor of Anesthesiology

James McAvoy, MD
Critical Care Medicine Fellow

Faculty Continued

Fred Mihm, MD
Professor of Anesthesiology
Co-Director, Intensive Care Units

Brita Mittal, MD
Clinical Assistant Professor of Anesthesiology

Amanda Morris, MD
Clinical Assistant Professor of Anesthesiology

Bill Mulkerin, MD
Clinical Assistant Professor, Emergency Medicine

Anil Panigrahi, MD
Clinical Assistant Professor of Anesthesiology

Radhamangalam 'RJ' Ramamurthi, MD
Clinical Professor of Anesthesiology

Teresa Roman-Micek, BS
Lead Simulationist
Stanford Center for Immersive and Simulation-Based Learning (CISL)

Lena Scotto, MD
Staff Anesthesiologist and Intensivist
Veteran's Affairs Palo Alto Health Care System

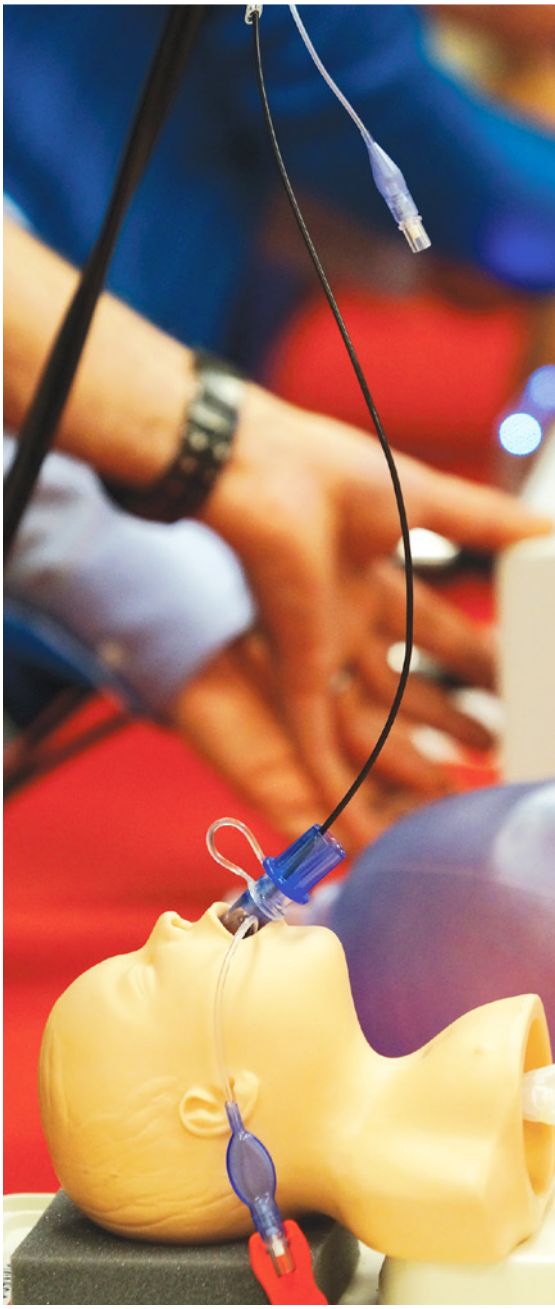
Jewel Sheehan, MD
Clinical Instructor of Anesthesiology

Alexei Wagner, MD
Clinical Assistant Professor, Emergency Medicine

Tammy Wang, MD
Clinical Assistant Professor of Anesthesiology

Phillip Wang, MD
Clinical Assistant Professor of Anesthesiology

Olga Wolke, MD
Clinical Assistant Professor of Anesthesiology



FACULTY DISCLOSURE

The Stanford University School of Medicine adheres to ACCME Criteria, Standards, and Policies regarding industry support of continuing medical education. Disclosure of faculty and commercial relationships will be made prior to the activity.

Please register early- space is limited!

Program

Each participant will attend the fiberoptic course and 12 difficult airway stations. Each participant will also attend one mini-review and one case-based discussion during the Lunch & Learn Session.

Saturday, March 28, 2020

7:00-7:50 am **Registration and Continental Breakfast**

7:50-8:00 am **Welcome and Announcements**
Vladimir Nekhendzy, MD

8:00-8:20 am **ASA Difficult Airway Algorithm: Best Practice Strategies for Success**
Vladimir Nekhendzy, MD

8:20-8:35 am **Video Laryngoscopy in Difficult Airway Management**
Jewel Sheehan, MD

8:35-8:50 am **Advanced Oxygenation Techniques**
Vladimir Nekhendzy, MD

8:50-9:10 am **Pediatric Difficult Airway**
RJ Ramamurthi, MD

9:10-9:30 am **Extubation of the Difficult Airway**
Irene Osborn, MD

9:30-9:45 am **Break and transition to hands-on**

9:45-12:45 pm **Hands-On: Difficult Airway Workshop and Fiberoptic Intubation Course**
Breakdown of stations below

12:45 – 12:55 **Transition to lunch room**

12:55-1:55 pm **Lunch & Learn (12 Mini Reviews)**
Please choose one:

1 **Difficult Airway in Obstetrics**
Naola Austin, MD, Alex Butwick, MD & Andrew Giustini, MD, PhD

2 **ENT Airway Tools: Operating Laryngoscopes, Rigid Bronchoscope, Tracheostomy Tubes**
Edward Damrose, MD, David Drover, MD & Amanda Morris, MD

3 **Pediatric Video Laryngoscopy**
RJ Ramamurthi, MD, Tammy Wang, MD & Olga Wolke, MD

4 **Difficult Airway and Obstructive Sleep Apnea**
Vladimir Nekhendzy, MD & Anil Panigrahi, MD, PhD

5 **Lung Isolation in a Patient with the Difficult Airway**
Jennifer Basarab-Tung, MD, Vivek Kulkarni, MD, PhD & Phillip Wang, MD

6 **Supraglottic Airways in Difficult Airway Management**
Brita Mittal, MD, Irene Osborn, MD & Amit Joseph, MD

7 **Pharmacology for Airway Management in Critically Ill**
Carlos Brun, MD, Fred Mihm, MD & James McAvoy, MD

8 **Prehospital Airway Management: Implications for Anesthesiologist**
Amit Saxena, MD & Davide Cattano, MD, PhD

9 **Rapid Sequence Induction: Full Stomach and Cricoid Pressure Controversy**
Bill Mulkerin, MD & Lynn Cintron, MD

10 **Adult Video Laryngoscopy**
Tiffany Cheng, MD, Lena Scotto, MD & Hannah Bechtold, MD

11 **Airway Management Outside of the Operating Room**
Meredith Hutton, MD, PhD, Elizabeth Koch, MD & Kyle Harrison, MD

12 **Difficult Airway and Obesity**
Jewel Sheehan, MD & Imran Ahmad, MD

1:55-2:10 pm **Supraglottic Airways in Difficult Airway Management**
Brita Mittal, MD

2:10-2:40 pm **Critical Decision-Making in ASA Difficult Airway Algorithm: Evidence-Based Approach**
Vladimir Nekhendzy, MD

2:40-2:55 pm **Break and transition to hands-on**

2:55-5:55 pm **Hands-On: Difficult Airway Workshop and Fiberoptic Intubation Course**
Breakdown of stations below

5:55-6:00 pm **Adjourn**

Please register early – space is limited!

Program Continued

Each participant will attend the fiberoptic course and 12 difficult airway stations. Each participant will also attend one mini-review and one case-based discussion during the Lunch & Learn Session.

Sunday, March 29, 2020

7:00-7:50 am **Registration and Continental Breakfast**

7:50-8:00 am **Review of Day 1**
Vladimir Nekhendzy, MD

8:00-8:20 am **Critical Care Physician's Perspective on Difficult Airway Management**
Carlos Brun, MD

8:20-8:40 am **Emergency Room Physician's Perspective on Difficult Airway Management**
Alexei Wagner, MD

8:40-8:55 am **Front of Neck Access (FONA)**
Meredith Hutton, MD, PhD

8:55-9:15 am **ENT Surgeon's Perspective on Difficult Airway Management**
Edward Damrose, MD

9:15-9:35 pm **Human Factors in Difficult Airway Management**
Sara Goldhaber-Fiebert, MD

9:35-9:45 am **Break and transition to hands-on**

9:45-12:45 pm **Hands-On: Difficult Airway Workshop and Fiberoptic Intubation Course**
Breakdown of stations below

12:45 – 12:55 **Transition to lunch room**

12:55-1:55 pm **Lunch & Learn (12 Case-Based Discussions)**

Please choose one:

1 **Difficult Airway in the Emergency Department**
Marc Gautreau, MD, Alexei Wagner, MD & Naola Austin, MD

2 **Pediatric Difficult Airway: Airway Management of Foreign Bodies in Children**
Olga Wolke, MD, Tammy Wang, MD & Andrew Giustini, MD, PhD

3 **Difficult Airway in Critical Care #1**
Carlos Brun, MD & Lena Scotto, MD

4 **Difficult Airway in Critical Care #2**
Fred Mihm, MD, Jennifer Basarab-Tung, MD & Erin Crawford, MD

5 **Difficult Airway in Head and Neck Surgery #1**
Vladimir Nekhendzy, MD & Edward Damrose, MD

6 **Difficult Airway in Head and Neck Surgery #2**
Amit Saxena, MD & Anil Panigrahi, MD, PhD

7 **Unanticipated Difficult Airway: Failed Direct and Video Laryngoscopy**
Tiffany Cheng, MD, Hannah Bechtold, MD & Imran Ahmad, MD

8 **Anticipated Difficult Airway: Unstable C-Spine**
Meredith Hutton, MD, PhD, Kyle Harrison, MD & Irene Osborn, MD

9 **Airway Management of the Morbidly Obese Patient**
Jewel Sheehan, MD, Amit Joseph, MD & Vivek Kulkarni, MD, PhD

10 **Anticipated Difficult Airway: Retrognathia**
RJ Ramamurthi, MD, Sara Goldhaber-Fiebert, MD & Davide Cattano, MD, PhD

11 **Anticipated Difficult Airway: Difficult Fiberoptic Intubation**
David Drover, MD, Elizabeth Koch, MD & James McAvoy, MD

12 **Preoperative Endoscopic Airway Examination (PEAE)**
Britta Mittal, MD, Alex Butwick, MD & Lynn Cintron, MD

1:55-2:00 pm **Break**

2:00-3:00 pm **Case Presentations & Discussion; Q&As: Expert Panel**
Vladimir Nekhendzy, MD, Imran Ahmad, MD, Carlos Brun, MD, Davide Cattano, MD, PhD, Edward Damrose, MD, Irene Osborn, MD, RJ Ramamurthi, MD, Amit Saxena, MD, Alexei Wagner, MD

3:00-3:10 pm **Break**

3:10-4:20 pm **Case Presentations & Discussion; Q&As: Expert Panel**
Vladimir Nekhendzy, MD, Imran Ahmad, MD, Carlos Brun, MD, Davide Cattano, MD, PhD, Edward Damrose, MD, Irene Osborn, MD, RJ Ramamurthi, MD, Amit Saxena, MD, Alexei Wagner, MD

4:20-4:30 pm **Concluding Remarks**

4:30 pm **Adjourn**

Please register early – space is limited!

DESCRIPTION OF HANDS-ON ADVANCED AIRWAY COURSE AND FIBEROPTIC INTUBATION COURSE

Fiberoptic Intubation Course

5 lectures and 6 hands-on stations

15 min **Fundamental Technical Skills Required for Successful Fiberoptic Intubation**
Dr. Drover

30 min **Hands-On: Fiberoptic Teaching Models**
Drs. Saxena, Drover, Mittal, Cheng, Ahmad, Mihm

20 min **Preoperative Endoscopic Airway Examination (PEAE) and PEAE Demo**
Dr. Saxena

15 min **Patient Selection, Indications and Contraindications to the Flexible Fiberoptic Intubation. Essential Attributes for Success.**
Dr. Cheng

20 min **Hands-On: Oral and Nasal Fiberoptic Intubation**
Drs. Saxena, Drover, Mittal, Cheng, Ahmad, Mihm

20 min **Difficult Flexible Fiberoptic Intubation: Causes and Solutions to the Problems. Advanced Techniques of the Flexible Fiberoptic Intubation.**
Dr. Mittal

40 min **Hands-On: Supraglottic Airway - Endotracheal Tube Exchange**
Drs. Saxena, Drover, Mittal, Cheng, Ahmad, Mihm

20 min **Awake Flexible Fiberoptic Intubation: State-of-the-Art**
Dr. Ahmad

Advanced Airway Management Course Stations

12 difficult airway skills stations arranged in 2 blocks, 6 stations each

1. **Video Laryngoscopy**
Drs. Sheehan, Cattano
2. **Fiberoptic Stylets/Light Wands**
Drs. Joseph, Bechtold
3. **Lung Separation Techniques**
Drs. Kulkarni, Basarab-Tung, Crawford, Wang
4. **Supraglottic Airways**
Drs. Butwick, Morris, Goldhaber-Fiebert
5. **Intubating LMA**
Drs. Koch, Panigrahi
6. **Pediatric Airway**
Drs. Ramamurthi, Giustini, Wang, Wolke
7. **Emergency Airway & Surgical Cricothyroidotomy**
Drs. Wagner, Damrose, Gautreau, Hutton
8. **Airway Ultrasound**
Dr. Cintron
9. **Extubation of Difficult Airway & Airway Exchange Catheters**
Drs. Osborn, Scotto
10. **Retrograde Intubation**
Drs. McAvoy, Mulkerin
11. **Advanced Oxygenation Techniques (THRIVE)**
Dr. Nekhendzy
12. **Simulation**
Drs. Brun, Austin, Roman-Micek, Harrison

ACCREDITATION

The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION

Stanford University School of Medicine designates this live activity for a maximum of **17.0** *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The California Board of Registered Nursing recognizes that Continuing Medical Education (CME) is acceptable for meeting RN continuing education requirements; as long as the course is certified for *AMA PRA Category 1 credits*™ (rn.ca.gov). Nurses will receive a Certificate of Attendance following this activity that may be used for license renewal.

Registration

STANFORD ADVANCED AIRWAY MANAGEMENT AND FIBEROPTIC COURSE – MARCH 28-29, 2020

Please register and pay online by credit card at stanford.cloud-cme.com/advancedairway

PLEASE REGISTER EARLY – SPACE IS LIMITED. Registration fee course materials, certificate of participation, and daily breakfast and lunch. Tuition may be paid by check, Visa, or MasterCard.

REGISTRATION FEES

Early Bird Discount	Physicians/CRNAs $1,195 Non-SHC Residents/Fellows $900
Regular After 2/28/20	Physicians/CRNAs $1,295 Non-SHC Residents/Fellows $900
Special Rates	Returning Learners: $800 International Groups (5 or more): $800

Please contact the Stanford CME office if you qualify to register for a special rate.

If you prefer to pay by phone or check, please contact the Stanford Center for CME at (650) 497-8554 for assistance.

Please note: *Your registration is not confirmed until payment is received.*

CANCELLATION POLICY

Cancellations received in writing no less than 20 days before the course will be refunded, less a 20% administrative fee. No refunds will be made on cancellations received after that date. Please send cancellation requests to stanfordcme@stanford.edu.

Stanford University School of Medicine reserves the right to cancel or postpone this program if necessary; in the event of cancellation, course fees will be fully refunded. We are not responsible for other costs incurred such as non-refundable airline tickets or hotel penalties.

ACCOMMODATIONS

For lodging near the Stanford campus, please view our lodging guide at: visit.stanford.edu/plan/lodging

CONFERENCE LOCATION

Li Ka Shing Center for Learning and Knowledge
2nd Floor Conference Center
291 Campus Drive, Stanford, CA 94305
conferencecenter.stanford.edu

Stanford Center for Continuing Medical Education
1520 Page Mill Road, Palo Alto, CA 94304
Phone: (650) 497-8554 • Email: stanfordcme@stanford.edu
Web: cme.stanford.edu

For questions about the symposium, please contact **Mary Sisney,** Marketing & Meeting Planning Specialist, Stanford Center for Continuing Medical Education at (650) 724-7166 or email: msisney@stanford.edu

Stanford University School of Medicine is committed to ensuring that its programs, services, goods and facilities are accessible to individuals with disabilities as specified under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Amendments Act of 2008.

If you have needs that require special accommodations, including dietary concerns, please contact the CME Conference Coordinator.

Please register early – space is limited!

What Past Participants Said

"I found the course extremely helpful, and will recommend it to all my anesthesia and head and neck surgical colleagues."

"Professors welcomed questions and discussions, and the "Lunch and Learn" sessions provided additional access to the experts."

"Terrific! Enjoyed very much and learned a lot of practical information."

"It was a great combination of "worst nightmare scenario ever" followed by "best advice ever". I was out of my comfort zone and learned a lot."

"Staff very welcoming and helpful. Organization of stations better than any others I have attended, including many Harvard events."

"Very high quality educators, who were enthusiastic and committed to making this a first class learning experience."

"One of the most useful hands-on courses I have attended. Very much appreciated!"

"Very informative and comprehensive course, with outstanding lectures and workshops."

Register online at stanford.cloud-cme.com/advancedairway