

2022 FPA ANNUAL MEETING

Scientific Schedule

May 27 – 30, 2022

Friday, May 27, 2022

12:30 pm

Registrant Sign-In

1:00 pm

Welcome and Announcements

1:15 – 6:00 pm

SESSION ONE

1:15 pm

The Diabetic Airman

John E. Freitas, MD

How can a diabetic achieve and maintain a medical certificate?

Upon completion of this presentation, the participant will be prepared to:

- Summarize the necessary steps needed for a diabetic to achieve and maintain an aviation medical certificate.

1:45 pm Audience question and answer

2:00 pm

Hearing Loss, Evaluation and Medical Management

Vincent B. Ostrowski, MD

What can be done about hearing loss?

Upon completion of this presentation, the participant will be prepared to:

- Summarize the most frequent types of hearing loss.
- Compare different treatments available for hearing loss.
- Cite the advantages and disadvantages of available medical and surgical treatments for hearing loss.

2:30 pm Audience question and answer

2:45 pm

Hearing Loss and Dementia: Association or Causative Factor?

H. Alexander Arts, MD

What are the facts about hearing loss contributing to dementia?

Upon completion of this presentation, the participant will be prepared to:

- Summarize the data supporting an association between hearing loss and dementia.
- List theories as to why hearing loss might be a remediable risk factor for dementia.

3:15 pm Audience question and answer

3:30 pm Break

3:45 pm

Take a Little Trip: Travel Medicine

James R. Elliott, MD, MPH, FAA Supervisory Physician

What treatment and advice should I provide my patients before they travel?

Upon completion of this presentation, the participant will be prepared to:

- Cite resources to find information on recommended vaccinations, malaria prophylaxis, and safety precautions for foreign travel.
- Educate patients on prevention of DVT when flying and on safely flying with various medical conditions.
- Reduce the risk of altitude sickness and provide treatment should it occur.
- Reduce risk for arthropod-borne diseases.

4:15 pm Audience question and answer

President:

John R. Mulvey, MD, FAAFP

Program Chair:

R. Stephen Smith, MD



4:30 pm **Current Concepts in Evaluation and Management of Overactive Bladder**
Melissa R. Kaufman, MD, PhD, FACS
What are the recommendations in diagnosis and management of overactive bladder?
Upon completion of this presentation, the participant will be prepared to:

- Develop appreciation of the demographics and comorbidities associated with overactive bladder.
- Identify the neurophysiology of bladder function.
- Summarize pharmaceutical and surgical management options for overactive bladder.

5:00 pm Audience question and answer

5:15 pm **Major Repair of a Composite Airframe—hit by a chipmunk** (Non-CME)
Bruce A. Kaufman, MD
What happens when a composite airplane needs a major repair – tips on dealing with insurance companies.
Upon completion of this presentation, the participant will be prepared to:

- Explain the processes used to repair a composite airframe—including limitations.
- Develop skills for dealing with insurance companies on composite airframe repair.

5:50 pm Audience question and answer

6:00 pm ADJOURN FOR DAY

Saturday, May 28, 2022

7:30 am Registrant Sign-In
7:50 am Meeting Announcements

8:00 am – 1:00 pm SESSION TWO

8:00 am **Critical Care Aeromedical Transport Teams: Is the Message in the Machine?**
Jay A. Johannigman, MD, FACS, FCCM
How has the movement by the US Military of critically ill combat casualties evolved over the last twenty years?
Upon completion of this presentation, the participant will be prepared to:

- Describe the composition of a USAF Critical Care Aeromedical Transport Teams.
- Articulate challenges imposed by the AE environment in a cargo aircraft to the transport of the critically ill.
- Describe challenges imposed by the care environment on situational awareness of patient condition(s).
- Define the OODA loop and how it applies to care of the injured patient.

8:45 am Audience question and answer

2022 FPA ANNUAL MEETING *Scientific Schedule*

- 9:00 am **Spaceflight in the 2020s: A pandemic, a new class of astronaut and lofty ambitions**
Michael F. Harrison, MD, PhD, MPH, FAsMA
What is different about commercial spaceflight and spaceflight during the COVID pandemic compared to operations during the NASA Shuttle era?
Upon completion of this presentation, the participant will be prepared to:
- Identify key health and fitness differences between professional and commercial astronauts.
 - Cite the unique risks and mitigation strategies for spaceflight operations during the COVID pandemic.
- 9:45 am Audience question and answer
- 10:00 am **Safe Operation in the National Airspace System** (non-CME)
Bruce L. Landsberg, Vice Chairman, NTSB
How not to crash or even come close while flying light aircraft, the ultimate question.
Upon completion of this presentation, the participant will be prepared to:
- Develop / maintain safe and legal flight operations while operating as a single pilot in basic and high performance light aircraft.
 - Compare the methods/processes of professional pilots and flight operations in managing risk.
- 10:45 am Audience question and answer
- 11:00 am *Break*
- 11:15 am **Damage Control Surgery in Weightlessness: A comparative study of simulated torso hemorrhage control in weightless and terrestrial conditions**
Andrew Wallace Kirkpatrick, MD
Are surgical procedures in weightlessness feasible?
Upon completion of this presentation, the participant will be prepared to:
- Present the need for surgical capabilities in long duration space flight.
 - Discuss perceived challenges to conducting surgery in weightlessness and space travel.
 - Cite surgical research in weightlessness.
 - Analyze Damage Control Surgery testing results in weightlessness.
- 11:50 am Audience question and answer
- 12:00 am **Teaching Surgery; Teaching Flying**
Max R. Langham, MD
How can using flight instructor skills improve my medical skills?
Upon completion of this presentation, the participant will be prepared to:
- Compare the similarities and differences of educating pilots and educating physicians.
 - Provide flight instruction paradigms that can be adapted into bedside teaching.
 - List the difficulties of incorporating an Aviation type rating and aviation approach into medical and surgical indications.
- 12:45 pm Audience question and answer
- 1:00 pm ADJOURN SCIENTIFIC/AVIATION SESSION
- 6:00 pm **Stump the IA.** (non-CME)
Michael D. Busch, A&P/IA, CFIA, CFII, CFIME
What burning aviation maintenance question do I have that Mike Busch can discuss and answer – and keep me flying without emptying my bank account?



Sunday, May 29, 2022

7:30 am Registrant Sign-In

7:50 am Meeting Announcements

8:00 am – 1:00 pm SESSION THREE

8:00 am **Burnout - Dx and Therapy**

David J. Norris, MD, MBA

What are some symptoms of burnout and how can one treat it?

Upon completion of this presentation, the participant will be prepared to:

- Outline the signs and symptoms of burnout.
- Discover several corrective measures the learner may use to help others recover from burnout.
- Describe the impact burnout has on an individual, their organization, and social circles.

8:45 am Audience question and answer

9:00 am **Predictive Analytics and Machine Learning** (non-CME)

Michael D. Busch, A&P/IA, CFIA, CFII, CFIME

How can digital engine monitor data be used to predict and prevent engine failures?

Upon completion of this presentation, the participant will be prepared to:

- Utilize the data captured by digital engine monitor equipment to determine the health of their aircraft's piston engine(s).
- Compare and contrast the expert system approach to the machine learning approach to automated analysis of data.
- Interpret predictive analytics reports correctly and take appropriate follow-up action.
- Overcome the psychological obstacles that can result in an inappropriate response to predictive analytics reports.

9:45 am Audience question and answer

10:00 am *Break*

10:15 am **Sepsis Update 2022**

Scott C. Brakenridge, MD

What's new (or not...) in sepsis diagnosis and management?

Upon completion of this presentation, the participant will be prepared to:

- Explain the evolving nature of sepsis definitions and the significance of the changes.
- Cite long-term morbidity and mortality outcomes after sepsis.
- Implement best practices for evidence-based sepsis care.
- Recognize emerging advances in precision medicine approaches to sepsis diagnosis and management.

10:45 am Audience question and answer

2022 FPA ANNUAL MEETING *Scientific Schedule*

- 11:00 am **Health Policy Impact on the Practice of Medicine, Patients & Healthcare Delivery**
K. A. Cleveland, PhD(c), JD, MSN, RN, C-MBC, C-MPC
Does health policy really impact physicians, healthcare delivery and patients?
Upon completion of this presentation, the participant will be prepared to:
- Describe 3 recent health policy shifts in the U.S.
 - Correlate how each policy shift has impacted the practice of medicine.
 - Identify how each policy shift has impacted patients.
 - Cite how each policy shift has impacted healthcare delivery.
 - Identify whether the recent policies have shifted the power base in health care delivery.
- 11:35 am Audience question and answer
- 11:45 am **HIPPA Flight School**
Ryan M. Smith, JD, CHPC, CHC
What are the current HIPAA requirements for providers and how can I stay compliant?
Upon completion of this presentation, the participant will be prepared to:
- Outline a general overview of HIPAA.
 - Cite key provisions of HIPAA.
 - Implement and apply HIIPAA standards in medical practice.
- 12:05 pm Audience question and answer
- 12:15 pm **How Dead is Dead?**
Andrew Craig Skattum, DO, FACS, FACOS
How do we accurately diagnose brain death?
Upon completion of this presentation, the participant will be prepared to:
- Describe the difference between brain death and cardiac death.
 - Accurately diagnose brain death.
 - Enact the process of brain death declaration and transition of care afterwards.
- 12:45 pm Audience question and answer
- 1:00 pm ADJOURN FOR DAY
- Monday, May 30, 2022**
- 7:30 am Registrant Sign-In
7:50 am Meeting Announcements
- 8:00 am – 11:30 am SESSION FOUR**
- 8:00 am **Long Term Care - Changes in the Industry**
Walter C. “Chip” May, CFP, CLU, ChFC, AEP, MSFS
What are the medical recommendations and updates for long term care; medical qualifications, mental and physical qualifications?
Upon completion of this presentation, the participant will be prepared to:
- Update medical recommendations for long term care; medical and physical qualifications.
 - Explain the differences defining active living with part-time Long Term Care, Assisted Living and nursing care.
 - Provide updates on changes in Long Term Care.
 - Prepare patients and adult children for transitioning based on first-hand experience testimony.
- 8:35 am Audience question and answer



- 8:45 am **The Story of Using Flight Data to Save Lives** (non-CME)
Michael McConnell, Founder and President, Aero Data Science
How can compiling and extracting flight data save my life?
Upon completion of this presentation, the participant will be prepared to:
- Explain the ‘why’ of using flight data.
 - Answer the questions of extracting data from your plane, the cost and financial benefit.
 - Discuss the role of flight training in this initiative.
 - Address the passion for aircraft flight data and the REAL story behind Eclipse Aviation in the 2000s.
- 9:20 am Audience question and answer
- 9:30 am **Microinvasive Glaucoma Surgery Combined with Cataract Surgery**
John R. Wright, DO
Can glaucoma be surgically treated at the same time as cataract surgery?
Upon completion of this presentation, the participant will be prepared to:
- Articulate the advancements in less invasive glaucoma surgery that can benefit their patients at the time of cataract surgery
- 10:35 am Audience question and answer
- 10:45 am **Physician Impairment and Rehabilitation**
James W. Van Hook, MD
What is the process for recognition and management of physician impairment?
Upon completion of this presentation, the participant will be prepared to:
- Outline the criteria, signs and symptoms seen with physician impairment.
 - Cite the process for referral of a colleague.
 - Maintain cognizance of outcome data from physician health programs.
- 11:20 am Audience question and answer
- 11:30 am 2022 Annual Meeting Scientific/Aviation Program adjourns