

The image is a composite of two photographs. The left side shows a man with grey hair, wearing a dark blue t-shirt, sitting at a control console. He is looking towards the camera with a slight smile. In the background, another person is visible, looking at a screen. The right side of the image shows a close-up of a control panel with several large, round gauges and various control knobs and switches. The overall lighting is dim, with a reddish-pink hue.

Environmental Physiology/ Hyperbaric Medicine Laboratory

Jeffrey A. Stone, D.O., M.P.H.

*“Science is nothing but
developed perception,
interpreted intent, common
sense rounded out and
minutely articulated.”*

George Santayana

The IEEM's **Environmental Physiology Laboratory** is a multiplace hyper/hypobaric triple lock chamber capable of accommodating up to seven patients at one time. Chamber operations are monitored by advanced computer systems. Equipment for managing medical emergencies inside the chamber includes cardiac monitoring, suctioning and mechanical ventilation. The 1,100-cubic-foot compression chamber uses compressed air at simulated depths of up to 165 feet below sea level to treat patients with chronic non-healing wounds, diabetic foot wounds, bone infections, radiation soft-tissue injuries, and failing skin grafts or muscle flaps. The chamber can also be flown to an altitude of 100,000 feet above sea level. The hyperbaric medicine unit serves as the referral center for the Divers Alert Network and Dallas County Poison Control. All nurses and technologists are specially certified in hyperbaric medicine and each R.N. is also certified in critical care medicine. It is one of only six centers in the United States that offers an ACGME hyperbaric medicine fellowship.



Dr. Levine and the hyperbaric crew work on an altitude research project.



Adam Mottley, Certified Hyperbaric Technician (CHT), exits one of three entrance locks to the hyperbaric chamber.



Dr. Stone and Shelby Benson, a Hyperbaric Technician, operate the chamber during an emergency treatment.



Adam Mottley, CHT adjusts the built in breathing system (BIBS) of a patient receiving hyperbaric oxygen therapy.



The hypo/hyperbaric control console ready for operations.



Dr. Stone overseeing the control console.



State-of-the-art monitoring technology, such as the Analox 10000 oxygen monitor ensures our patients are kept safe during operations.



Dr. Stone in his office.



“As a part of the IEEM since 1992, it is my privilege to work with some of the finest researchers and clinicians in the world. My experiences at the Institute make me a much better diagnostician and scientist. It is an honor to be part of an organization that exemplifies the finest in scientific and clinical excellence. The global impact of clinical research accomplished at the Institute is reflected in the improved quality of life for many of our patients, and by extension, the population at large.”

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