**Blue Abyss Launches *x*Ed, Delivers Aerospace Physiology Lecture Series for Case Western Reserve University.**

Cleveland, Ohio – (Embargoed until) 9th June 2025

Blue Abyss, the world’s first commercial subsea to space research and training company, has celebrated the launch of its specialist education division, Blue Abyss xEd, with the delivery of its first major academic program, an Aerospace Physiology Lecture Series for Case Western Reserve University (CWRU).

The new service from Blue Abyss is designed to enrich STEM, life sciences, and medical curricula with content grounded in real-world operations, exploration, and extreme environment expertise. The service reflects the growing demand for applied future-focused education that connects students directly with the challenges of spaceflight, aviation, and human performance under pressure.

The lecture series now underway at CWRU is being delivered by Blue Abyss’ global faculty of experts. It offers students access to valuable insight into how the human body functions and adapts across domains such as microgravity, high altitude, and underwater environments.

*"The xEd program has significantly enhanced the number of global experts who provide lectures within our Masters of Aerospace Physiology curriculum,"* said Michael J. Decker, PhD, Associate Professor at Case Western Reserve University. *"Our students are able to receive course content from experts who understand the effects of space upon human physiology and the necessary mitigations as a result."*

**A Flexible Model for the Future of STEM Education**

The lecture series will deliver approximately 38 lectures across three modules:

• Aerospace Physiology

• Space Adaptation and Countermeasures

• Human Performance Optimization

Topics include:

* Spaceflight-induced changes in musculoskeletal, cardiovascular, and neurovestibular systems
* Sleep, circadian disruption, and cognitive performance
* Nutrition, pharmacology, exercise physiology, and astronaut rehabilitation
* Performance enhancement and countermeasures in mission environments

Blue Abyss xEd programs can be customized to meet the needs of each institution, whether as a fully integrated curriculum module, a short-term enrichment series, a guest lecture experience, or part of a corporate education initiative. Delivery can be:

* Live, online or in person
* Asynchronous recorded lectures
* Hybrid with in-class facilitation
* Bespoke program co-development with academic staff

*“We launched xEd to enable schools, colleges and universities to access a global pool of experiential-based and qualified knowledge,”* said Prof. Simon Evetts, R&D Director at Blue Abyss. *“Whether you’re designing a course on human spaceflight or teaching physiology, nutrition, or cognitive performance, our content brings lessons from orbit, ocean, and every extreme in between.”*

*“It’s not about off-the-shelf content,”* added Evetts. *“We work with each institution to design a program that’s relevant, rigorous, and inspiring.”*

**About Blue Abyss xEd**

Blue Abyss xEd is the education arm of Blue Abyss, offering flexible, high-impact teaching programs rooted in real-world research, operations, and exploration. It builds on Blue Abyss’ three pillars: expertise, education, and infrastructure, to provide institutions and organizations with tailored, scalable, and specialist learning experiences.

<https://youtu.be/z9M_dVGT91A>

xEd connects students, educators, and corporate audiences with qualified, recognized educators in:

* Aerospace and space medicine
* Human physiology and adaptation
* Performance optimization
* Subsea operations and marine science
* Cross-disciplinary systems for extreme environments

**Looking Ahead**

Following the successful launch with CWRU, Blue Abyss is now engaging with academic institutions, commercial space companies and agencies, and corporate organizations seeking specialist educational content for 2025 and beyond.

Institutions and organizations can co-create their xEd program based on local needs, academic calendars, strategic goals, or corporate training objectives. For example, Blue Abyss xEd also offers guest speakers and enrichment sessions for companies looking to engage or inspire their staff, leadership teams, or clients through unique perspectives on human performance in extreme environments.

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**About Blue Abyss**

* Blue Abyss is the foremost expert in extreme environment research, training, and development, facilitating operations in extreme environments from subsea to space.
* Offering state-of-the-art consultancy and world-class education, Blue Abyss equips organizations and individuals to excel in human spaceflight, subsea operations, and cutting-edge system development.
* With significant infrastructure investments in both the UK and the US, Blue Abyss features leading-edge facilities including the world’s largest and deepest R&D pools, a human-rated centrifuge, parabolic flights and other analog extreme environments.

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