

Humboldt Kolleg

Hilton Garden Inn Hotel, Doamnei St. 12, Bucharest  
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### *Global Challenges of the 21<sup>st</sup> Century*

- 1) *Technological development and human health/ quality of life*
- 2) *Climate change and environmental sustainability*
- 3) *Democracy and cohesion in Europe*

### *On the Freedom to Choose: Adaptive Free Will in a Complex World*

What is free will? Do we have it? These questions are as old as humanity itself and yet they remain relevant to our ability to navigate an increasingly complex world. In this talk I will present a formal model of free will based on adaptive learning that seeks to provide a framework for better understanding this phenomenon.

**Ian Durham** is a Professor at Saint Anselm College where he also serves as Chair of the Department of Physics. His research interests include relativistic quantum information, the foundations of physics, and formal models of consciousness. He is a past Secretary-Treasurer of the American Physical Society's Division of Quantum Information (DQI) and was the founding editor of *The Quantum Times*, a DQI publication. He currently serves on the Editorial Board of the journal *Entropy*. He is a member of the Foundational Questions Institute (FQXi) from which he has also won numerous grants and awards.