

AUSTRIAN
ACADEMY OF
SCIENCES

MARCH 09, 2023
START: 18:00
AUSTRIAN ACADEMY OF SCIENCES
FESTIVE HALL
DR. IGNAZ SEIPEL-PLATZ 2
1010 VIENNA

ACADEMY LECTURES

ERWIN SCHRÖDINGER LECTURE



RANDOM WALK TO GRAPHENE

SIR ANDRE GEIM

University of Manchester

WELCOME

ULRIKE DIEBOLD

Vice-President of the Austrian Academy of Sciences

Graphene – a single plane of carbon atoms – is not only the thinnest but also probably the simplest material one can imagine. On the other hand, graphene has acquired so many superlatives to its name that it is often called a wonder material. This lecture will discuss how Sir Andre Geim's research started and further tries to explain in a simple, not too scientific way why graphene has attracted so much attention.

Sir Andre Geim is Regius Professor at the University of Manchester. He was awarded the 2010 Nobel Prize for his groundbreaking work on graphene, a one-atom-thick material made of carbon. He has also received numerous international awards and distinctions, including medals from the Royal Society and the US National Academy of Sciences, and holds honorary doctorates and professorships from many countries and universities. He is also a member of Chinese, American and British academies of science.

Thomson-Reuters repeatedly named him among the world's most active scientists and attributed to him three new research fronts – diamagnetic levitation, gecko tape and graphene. More than forty of his papers were cited >1,000 times with seven of them >10,000 times. Two of the latter are among 100 most cited research papers in human history, according to journal Nature. He was also awarded the 2000 Ig Nobel prize for his work on levitation, becoming the first and only recipient of both Nobel and Ig Nobel Prizes. Sir Andre was knighted by Dutch and British monarchs.

Named after the Austrian physicist and Nobel laureate, the "Erwin Schrödinger Lectures" are a series of events which cover all aspects of physics. They belong to the broader category of the "Academy Lectures", which bring prominent speakers from various fields to the Austrian Academy of Sciences in Vienna to address current scientific and societal issues.

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