



Second Laureate Fundamental Research



- **Name:** Prof. Su-Moon Park
- **Nationality:** Korean
- **Date of Birth:** 1941
- **Position:** Professor
- **Scientific Affiliation:** Department of Chemistry and Center for Integrated Molecular Systems, Pohang University of Science and Technology, Pohang, Gyeongbuk, S. Korea

Project Title: Development of Fourier Transform Electrochemical Impedance Spectroscopy (FT-EIS) and a New Model for Electrochemistry Based on FT EIS Measurements

Abstract:

With real time measurements of impedances at electrochemical interfaces possible by our newly developed novel Fourier transform electrochemical impedance spectroscopy technique; we developed a new model for describing electrochemical currents observed at the electrode/electrolyte interface due to an electron transfer reaction. The technique and the theory that we developed are expected to change the way the electrochemical measurements are made. They are also expected to provide impacts on research on corrosion and electrochemical energy conversion devices.

Biography:

Prof. Park published about 260 papers/book chapters and 2 books. His high impact work led him to be selected as one of Highly Cited Researchers in materials science by the Institute of Scientific Information. He received a number of awards from the US DOE as well as the Korean Chemical Society.”