

Carlo Segre

Biography

Carlo Segre is the Duchossois Leadership Professor of Physics at Illinois Tech (IIT). He is a co-founder, and current Director, of the IIT Center for Synchrotron Radiation Research and Instrumentation (CSRRI).

He is also Director of the Materials Research Collaborative Access Team (MRCAT), a group that operates an experimental facility for materials research at Argonne National Laboratory's Advanced Photon Source (APS) serving users from universities, government laboratories, and industry across the United States and internationally. He is a Fellow of the American Association for the Advancement of Science and of the International Center for Diffraction where he is serving a term as Vice-President of the Board of Directors.

Carlo is the author of over 200 publications with research centering on the structure and electronic properties of materials, most recently battery materials and fuel cell catalysts for energy conversion and storage. The experimental techniques used in his research include material synthesis through solid state synthesis and advanced chemical methods; structural characterization of the samples performed by x-ray powder diffraction and x-ray absorption fine structure; and measurement of properties by electrochemical methods, resistivity, and magnetic susceptibility. In his 42 years on the Illinois Tech Faculty, he has mentored over 30 Ph.D. students and served as Associate Chair, Associate Dean, and Interim Department Chair.

Carlo is also a co-founder and CTO of Influit Energy, a company that has recently raised Series A funding to commercialize a novel Nanoelectrofuel flow battery suitable for transportation and stationary applications.