# Carlos Castano, Ph.D.

Associate Professor, Department of Mechanical and Nuclear Engineering at VCU College of Engineering

Richmond, VA, US

Professor Castano specializes in tailoring surface properties of materials for applications in energy, transportation, and manufacturing.

## **Biography**

The Castano's research group focuses on tailoring the surface properties of materials by physical and chemical methods for engineering applications. The research areas are organized around four main fields: Nanotechnology, Surface Science, Functional Coatings, and Materials under Extreme Environments - Irradiation, Plasmas, and High Temperatures.

## **Industry Expertise**

Nanotechnology, Manufacturing, Machinery, Aerospace, Automotive, Metalworking and Coatings Technology, Steel, Ceramics and Glass, Semiconductors, Mechanical/Industrial Engineering, Paint, Renewables and Environmental, Chemicals, Pharmaceuticals, Research, Education/Learning

#### **Areas of Expertise**

Surface Engineering, Functional Coatings, Nanomaterials Engineering, Corrosion Engineering, Thin film deposition and characterization, Lightweight Alloys, Plasma Physics, Advanced Materials Characterization, Tribology

## Affiliations

Alpha Sigma Mu (Honorary Member), The Minerals, Metals & Materials Society (Member), The American Ceramic Society (Member)

## Education

Virginia Commonwealth University Postdoc Chemical and Life Science Engineering

**Missouri University of Science and Technology** Ph.D. Materials Science and Engineering

National University of Colombia M.Sc. Engineering - Materials and Processes

#### Accomplishments

#### **Roberto Rocca Fellow**

Roberto Rocca Fellowships are given exceptional university graduates who are citizens of Argentina, Brazil, Colombia, Indonesia, Mexico, Venezuela and Romania, and who will enter a Ph.D. program outside their own country or who have already begun their studies towards a Ph.D. at a university outside their own country. http://www.robertorocca.org/en/fellowships.aspx

#### **Outstanding MSE Graduate Student Award at Missouri S&T**

The materials science and engineering department at Missouri S&T recognizes every year a graduate student for his research and teaching outstanding contributions

#### NSF ASSIST/LEVERAGE Awardee 2019

This award allows the faculty to participate in the Academic and Research Leadership Symposium (ARLS). The ARLS has two threads: (1) a faculty development thread, and (2) a research networking thread. The ARL Network promotes the discussion of ideas for improving networking among underrepresented minority faculty at a local and national level.

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