

# IGNITE CHANGE. GO GREEN.

## Faculty Spotlight:

### Charles Coe, PhD, Research Associate Professor of Chemical Engineering

This interview series brings you inside the world of Villanova's faculty and explore how their work relates to creating a sustainable future. In this issue, we hear from Dr. Chuck Coe, a research associate professor in the department of Chemical Engineering.

#### What is your academic background?

I received my PhD in organic chemistry from Carnegie Mellon University.

#### How long have you been teaching at Villanova?

I started as a visiting assistant professor at Villanova six years ago. In April of 2014, I was appointed to a research associate professor position.

#### In your own words, how would you define sustainability and why is it important to you?

For me, sustainable practices are the only way to improve the quality of life for the 10 billion people that are projected to be on planet earth in 2050. I am passionate about sustainability because I see it as the only way to improve the quality of life for large populations that currently are in poverty and enable all species to thrive in the future.

#### What is your current research focus?

I am currently working on how to improve the separation process of gases, and the production of sustainable fuels.

#### Do you collaborate with others for your research?

Yes. My research involves both internal and external collaborations and would not be possible without cooperative sharing of laboratory resources and ideas from my Chemical Engineering colleagues.

#### If you could create one course out of thin air, what would it be?

A course on energy storage which is the enabler for all forms of intermittent energy supplies.

#### What are your favorite outside of the office activities?

I enjoy choral music and being involved with a ministry for mentally differently abled adults.

