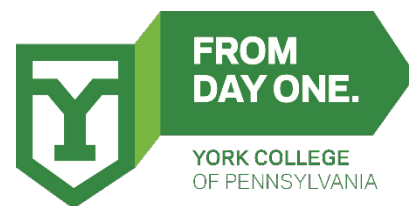


Chemistry, B.S.

Forensic Chemistry, B.S.

Medical Laboratory Science, B.S.



Alumni Profile

Aleks Pisarenko, Ph.D.
Trussell Technologies

Aleksey Pisarenko has a B.S. in Chemistry from **York College of PA** and Ph.D. in Chemistry from Miami University. Dr. Pisarenko is a leader in water and wastewater treatment, conducting research on emerging water contaminants and development of mitigation strategies. He has co-authored 16 publications and given over 30 presentations. Dr. Pisarenko has conducted pilot-scale studies in advanced wastewater treatment, such as: membrane bioreactor (MBR); advanced oxidation, including O_3/H_2O_2 , UV/H_2O_2 ; and membrane filtration systems, including microfiltration (MF), ultrafiltration (UF), and reverse osmosis (RO). While working at Southern Nevada Water Authority, Dr. Pisarenko investigated the effects of oxidation on the effluent organic matter (EfOM) to minimize organic fouling of RO membranes and evaluated the impacts of various technologies on trace organic and inorganic contaminant mitigation in water reuse applications. His current work involves investigating the chemistry of NDMA and perfluorochemical (PFC) formation in wastewater during ozonation.

Employment Record - Here is a partial list of companies who have hired our recent graduates:

Accutest	Envirite	MRG Laboratories	Siemens Healthcare
Adhesives Research	Geisinger Medical Center	NMS Labs	SiGNa Chemistry
Air Products	Gilead Sciences	NYC Police Department	Starbucks
AMZ Manufacturing	GlaxoSmithKline	PA-DEP	Takeda Pharmaceutical
Ankom Technology	Harley-Davidson	Particle Sciences	Thermo Fisher
BAE Systems	Hershey Medical Center	Pfizer	Trussell Technologies
BASF Corporation	Johns Hopkins Hospital	Polytek	UPM Pharmaceuticals
Bimax Chemicals	Johnson and Johnson	PPG	US Army
Bristol-Myers Squibb	Eurofins Lancaster Labs	Proctor and Gamble	Villanova University
Champions Oncology	McCormick Spice	Quest Diagnostics	Wellspan Health
Church & Dwight	Middlebury College	Ross Technology	Wilbur Chocolate
City of Hope	Morristown Hospital	Sciex	York College of PA
COIM USA	MPI Research	Seldon Technologies	York Laboratories

Graduate Programs - Here is a partial list of graduate schools who have accepted our recent graduates:

Dickinson College	Miami University	University of Rochester	University of Buffalo
Drexel University	Penn State University	University of the Sciences	University of Maryland
Fairleigh Dickinson University	Syracuse University	University of Utah	University of Vermont
George Mason University	Temple University	University of Alabama	Vanderbilt University
George Washington U.	Texas A&M University	University of Washington	Villanova University

YORK COLLEGE OF PENNSYLVANIA

Chemistry Program

Our courses expose students to the most up-to-date, practical techniques which prepare them for advanced studies or employment. They spend significant hands-on time with instruments.

major instrumentation acquired by the chemistry program			
Supercritical Fluid Extractor	\$50K	LC-MS	\$60K
UV/VIS Spectrophotometer	\$20K	Chiral-IR	\$120K
GC/MS/MS	\$100K	UV/VIS	\$60K
FT-IR	\$20K	Atomic Absorption	\$75K
FT-NMR	\$200K	X-Ray Fluorescence	\$100K
Fluorescence Spectroscopy	\$30K	Capillary Zone Electrophoresis	\$70K
Ion Chromatograph	\$35K	TGA/DSC	\$50K
ICP-AES	\$80K	Parr Calorimeter	\$10K
Atomic Force Microscopy	\$40K	Scanning Probe Microscopy	\$50K
Raman Spectroscopy	\$60K	SFC	\$80K
FTIR Microscopy	\$70K	GC/MS	\$40K

Our students are encouraged to participate in independent study as soon as they arrive on campus. Chemistry majors are required (Forensic Chemistry majors may choose) to partner with a faculty member their senior year and work on meaningful research. Most will publish their findings at the national meeting of the American Chemical Society.

Titles of papers presented by YCP students at the March 2016 meeting of the American Chemical Society, San Diego, CA
Determination of illicit drug metabolites in wastewater by liquid chromatography mass spectroscopy
Heavy metal content analysis of wines produced in the U.S. using inductively coupled plasma-optical emission spectroscopy
Detection of methamphetamines in medium and low velocity bloodstain patterns
Comparative perspectives of France and the US in climate change negotiations
Predictive modeling of the UV-VIS spectra for a series of short-chained polyenes
Crosslinking of the antibody anti-human IL 13R alpha 2 peptide IgY to FITC via PDPH
Determination of the effect of dissolved oxygen on the rate of oxidation presented by trans-2-nonenal in beer