

♀ **#WOMENINCHEMISTRY**



WENDY PEARMAIN

Chemistry Teacher

Wendy is a Head of Science at a UK school, with previous laboratory experience in the petrochemical industry and water treatment trace organics.

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SIÂN JACKLIN

Chemistry Teacher

Siân is a very enthusiastic teacher of A level Chemistry, which she has taught for over a quarter of a century. She is also Deputy Headteacher at Amersham School in the UK. She is extremely proud of everything that her former students have gone on to achieve.

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NATALIE ROSE WALSH

Teacher of Science

Natalie is an unashamedly nerdy science teacher who hopes to inspire the next generation of Curies, Franklins, and Priestleys to love chemistry as much as she does!

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CHRISTY L HAYNES

Chemistry Professor

Christy's research group carries out collaborative chemistry research related to sustainable nanoscience. She is passionate about contributing to the development of diverse future leaders in chemistry.

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DINA C MERRER

Mechanistic Organic Chemist

Dina investigates the influence of reaction dynamics on carbene additions to strained C=C bonds. She is a graduate of Smith College and Rutgers University, and has mentored 45 (and counting) Barnard College undergraduate research students since 2001.

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ALISSA MATUS

Chemistry PhD candidate

Alissa has a background in organometallic chemistry, and focuses on accessing transition metal hydrides for use as electrocatalysts in Jenny Yang's research group. She strives to make good mentorship and STEM accessible for all women of color.

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FLORENCE ORAM

Analyst

Florence tests raw materials, tablets and capsules, and works hand-in-hand with Formulation and Development in the pharmaceutical industry.

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MARIE KESTEN ZAHN

Archaeologist

Not all archaeologists dig in the dirt! Marie works on artifact conservation, combining history and chemistry to find the right compounds to clean and preserve a variety of materials, as well as analysing damages that occur over time.

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ERIN M McCONNELL

PhD Chemist & Science Communicator

Erin uses DNA nanotechnology to build biosensors and diagnostic tools. She hopes to inspire the next generation of scientists as a mentor and STEM expert for the Canadian Association for Girls in Science (CAGIS).

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ALICIA MULQUEEN

Science Teacher

Alicia graduated with a Bachelor of Science degree in chemistry in May 2020. She is now halfway through her first year as a high school physical science teacher.

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RAJSHREE GHOSH BISWAS

Chemistry PhD student

Rajshree researches the impact of environmental stressors on small living organisms using a technique called comprehensive multiphase-nuclear magnetic resonance spectroscopy. This technique can analyze solutions, gels and solids of natural samples at the molecular level.

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JESSICA PIKUL

Professor of Chemistry

Jessica introduces college students to chemistry. She also researches new methods in adult education and self-directed learning to help increase diversity in STEM fields.

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DANIELLE R BERRY

Senior Research Specialist

Danielle conducts applications development research and serves as a technical expert for thermally conductive materials used in consumer electronics developed by Dow, a materials science company.

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RHONDA FROHN

High School Chemistry Teacher

Rhonda is a high school chemistry and physics teacher. She loves watching students who claim to be "bad in math" succeed and have fun while being challenged.

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SAIMA SHABBIR

Associate Professor

Saima works on nanomaterials for multidrug resistance, food safety, water treatment, solar cells and carbon capture. She is a Fulbright Fellow, TechWomen Emerging Leader, and co-founded "STEM for Change" which addresses gender disparity in STEM leadership.

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NATALIA GARCIA DOMENECH

Nanofiltration with 2D nanomaterials

Natalia develops new nanofiltration membranes using 2D nanomaterials, like boron nitride, for the agri-food industry. The goal is to be able to separate monosaccharides from di- and polysaccharides.

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STEPHANIE SCHNEIDER

Atmospheric Chemist

Stephanie currently does research identifying and quantifying the release of gas-phase molecules from the ocean, which are formed from oxidation reactions at the ocean surface with ozone.

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MIRANDA PALEY

Scientific Consultant and Communicator

Miranda provides subject matter and communications expertise to research at the US Department of Homeland Security's chemical and biological hazard characterisation program, reviewing and editing scientific documents and representing the program at meetings.

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KELLY BROWN

Electroanalytical Researcher

Kelly is aiming to expand the acceptance of electroanalytical chemistry to the wider analytical community, through the development of rapid, low-cost, portable and simple-to-use electrochemical sensors for forensic and clinical applications.

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DEBBIE LENZ

Chemistry Teacher

Debbie challenges the minds of students by encouraging them to seek evidence to support their claims. Chemistry is the vehicle she uses to move them forward.

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IMARI WALKER

Environmental Analytical Chemist

Imari researches the fate and transformation of plastic additives within freshwater environments. She created a science communication YouTube channel to share information about plastic pollution, microplastics, and harmful chemicals associated with these products.

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GAIA DE ANGELIS

Functionalised Surfactant Chemist

Gaia makes biocompatible functionalised surfactants that can be used to convert emulsions to capsules via ionic cross-links. This results in viscoelastic robust capsules that can be used in drug delivery, soft robotics and as sensors.

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RIANNE LORD

Metal-based Anti-Cancer Drug Explorer

Rianne's research uses the unique properties of metals to design and synthesise new drugs for the detection and treatment of cancer. The ultimate goal of her research is minimising side-effects for patients and improve quality of life.

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CHRISTINA C ROGGATZ

Marine Chemical Ecologist

Christina investigates the impact of ocean acidification on the chemical communication molecules of marine organisms like crabs, algae, biofilms & pufferfish. She uses a supercomputer to model molecule properties in future oceans. Passionate science communicator.

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AIMEE WIGGINS

Astrobiogeochemist

Aimee uses quantum chemistry to investigate how biomolecules stick to silicate minerals, a process which may have been involved in the origin of life.

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CLARISSA SORENSEN-UNRUH

Chemistry Professor and STEMEd researcher

Clarissa teaches chemistry at the community college level. Her STEM education research focuses on assessment and evaluation, specifically "ungrading", ethics in assessment, and diversity, ethics and inclusion.

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EVÉ WHEELER-JONES

PhD student in Electrochemical Engineering

Evé creates and tests new and different materials for batteries to improve their properties, for example to make them charge faster.

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MADELEINE JOULLIE

Synthetic Organic Chemist

Madeleine was one of the first women appointed to an organic chemistry tenure track position in the US. A role model for generations of women in chemistry, and a leading expert in the area of cyclopeptide alkaloids.

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CHRISTINA M JONES

Analytical Chemist

Christina is an expert in mass spectrometry and metabolomics, and focuses on ensuring that researchers can make accurate measurements for metabolites which can serve as chemical markers of disease. A "40 Under 40" Rising Star in Metabolomics and Proteomics.

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NIKI KAISER

Chemistry Teacher and Research Lead

Niki is a chemistry teacher in a secondary school who also works with teachers to help them apply education research to their practice. Interested in helping people to understand *why*, as well as what or how.

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THARIN BLUMENSCHN

Associate Professor in Protein NMR

Tharin uses NMR spectroscopy to look at proteins and their structure, dynamics, interactions and functions. She is studying intrinsically disordered proteins from Chlamydia that interact with proteins in the human cell during infection.

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REBECCA GOSS

Sustainable molecule making

Rebecca leads a diverse and multidisciplinary research group looking for new medicines and new tools for molecule building from nature. Together, we have pioneered GenoChemetics, a fusion of synthetic biology and synthetic chemistry for sustainable molecule making.

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ANDREA CHLEBIKOVA

Atmospheric Chemist and Educator

Andrea uses computer simulations to try to work out which reactions in the air around us matter. She also teaches chemistry, mainly to undergraduates, but enjoys explaining chemistry concepts to anyone interested (and convincing those who are not)!

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AMY JENNE

Environmental Chemist

Amy uses Nuclear Magnetic Resonance (NMR) spectroscopy to develop new methods to measure the impacts of water contamination on *Daphnia magna* (water fleas) by examining real-time changes to their metabolomes using in-vivo exposure.

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OLJA SIMOSKA

Microbial Electrochemist

As a postdoctoral researcher, Olja is working on investigating methods, such as genetic engineering approaches and understanding mediator properties, to improve extracellular electron transfer and performance of microbial electrochemical systems.

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JESSICA CHUANG SEELIGER

Pushing the mycobacterial cell envelope

Jessica is investigating how mycobacterial pathogens assemble their cell envelopes, especially the outermost lipid layer. She brings chemical biology to microbiology to uncover cell envelope proteins and their functions in bacterial growth and survival.

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HELEN WALDEN

Structural Biologist

Helen studies the mechanisms of post-translational modification of proteins by ubiquitin, and how regulation of signals drives cellular processes such as DNA repair and protein turnover.

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MARIA J MARIN

Analytical Chemist

Maria's research focuses on the application of nanoscience to address biological challenges. Her main interests are in the use of nanomaterials as colorimetric sensors, intracellular sensors and as drug delivery systems for cancer treatment.

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CAROLINE LYNN KAMERLIN

Simulating protein evolution

Caroline and her team use molecular simulations to understand the chemical basis for complex biomolecular problems, in particular focused on protein engineering, biocatalysis, and the role of conformational dynamics in protein evolution.

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NANCY RAQUEL CARDONA CORDERO

ECHO Puerto Rico Diversity Fellow

Nancy evaluates consumer behavior considering exposure patterns and its relationship with phthalate levels. Her work considers maternal-child health indicators, social determinants and participant's knowledge and perceived risks to develop strategies to reduce exposure.

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