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Open Day app

Department of Life & Environmental Sciences

BSc Environmental Science

Dr Iain Green

#BUopenday
#belongatbu

Contents of this talk

- What is Environmental Science?
- Background to the University and Department
- Details of the course
- Transferable skills and experience

What is Environmental Science?

- How the physical environment works
- How parts of the physical environment and life interact with each other
- How humans affect the environment
- How we can live sustainably



We are tackling inequality in higher education



**First university
to be “commended”
for quality of student
learning opportunities**

The Quality Assurance Agency for Higher Education, September 2013

Investing in a campus for the future



Lansdowne Campus:
Bournemouth Gateway



Talbot Campus:
Poole Gateway



Student Centre



The Fusion Building

See it for
yourself

Visit our Virtual Tour to
see everything in 360°

[www.bmth.ac.uk/
virtual-tour](http://www.bmth.ac.uk/virtual-tour)

- **Our undergrad degrees:**

- BSc Biological Sciences
- BSc Biomedical Science
- BSc Ecology and Wildlife Conservation
- **BSc Environmental Sciences**
- BSc Forensic Biology
- BSc Forensic Investigation
- BSc Forensic Science
- BSc Geography
- BSc Medical Science



What we offer

- An intensive **research-based education**
- Exposure to the **latest research and thinking**
- Exposure to the best **natural laboratory** in the country
- A focus on **placements** and **employability**
- **Personal development** opportunities
- **Overseas travel** opportunities through placements and field courses



A natural laboratory



Poole Harbour Special Protection Area



Jurassic Coast World Heritage Site



Head of Department



Dr. Kathy Hodder
Ecology and sustainability

Deputy Heads of Department



Dr. Pippa Gillingham
Biogeography



Dr. Emilie Hardouin
Population genetics



Dr. Sally Brown
Coastal geomorphologist

Our staff



Prof. Adrian Newton
Forest ecology and sustainability



Dr. Elena Cantarello
Green economy, forest ecology



Dr. Duncan Golicher
Forest ecology and biogeography



Prof. Rick Stafford
Ecology and statistics



Prof. Richard Stillman
Bird ecology and modelling



Prof. Anita Diaz
Conservation ecology

Our staff



Prof. Amanda Korstjens
Primate behaviour and ecology



Prof. Rob Britton
Fish Ecology



Prof. John Steward
Paleoecology



Dr. Dan Franklin
Aquatic microbiology



Prof. Genoveva Esteban
Microbial ecology



Prof. Robert Herbert
Marine biology

Our staff



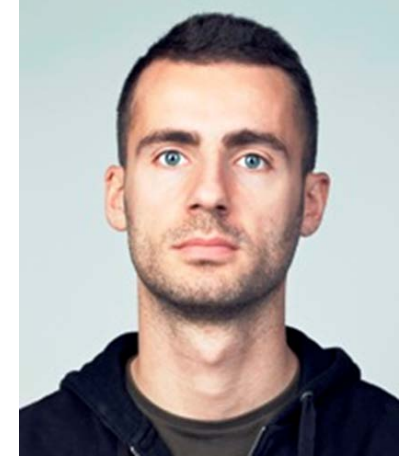
Prof. Matthew Bennett

Sedimentology & geomorphology



Prof. Luciana Esteves

Coastal processes



Dr. Marin Cvitanovic

Socio-environmental systems,
land use change



Dr. Andy Ford

Geomorphology, remote sensing, GIS



Prof. Ross Hill

Remote sensing, GIS



Tilak Ginige

Environmental Law

Our Staff



Dr. Iain Green

Environmental biology



Paul Kneller

Chemistry and environmental
forensics



Dr. Demetra Andreou

Parasitology

Demonstrator team

Magda Barrow – Biomedical Sciences
Damian Evans – Entomology & field survey
Stephen Fordham – Biosciences
Nikky Jones – Analytical Science
Harry Manley - Geoinformatics

Currently recruiting

- Lecturer in Environmental Analytical Chemistry
- Demonstrator in Biomedical Sciences
- Demonstrator in Analytical Science

BSc (Hons) Environmental Science

- Environmental Science sits at the heart of the department
- BSc (Hons) Environmental Protection started in 1992
- BSc (Hons) Environmental Science delivered from 2010
- Delivery of completely new and revised curriculum from 2015
- Course accredited by the



The institution of
environmental sciences

Entry requirements:

- The entry requirements for the BSc course are 104 to 120 tariff points and grade 4 GCSE English Language or English Literature and Mathematics
- The entry requirements for the Foundation year are 48–72 UCAS tariff points. There are no GCSE requirements. The foundation year will cover these skills in preparation for degree study.

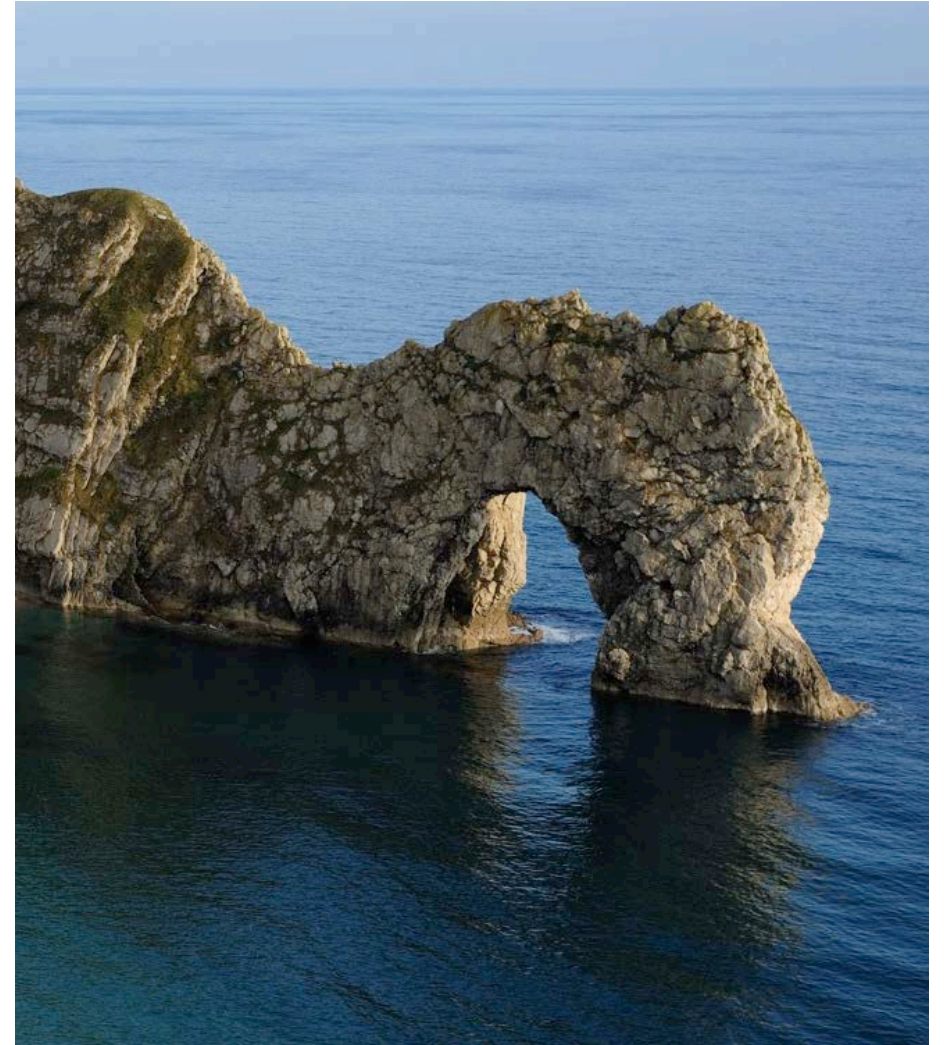
BSc (Hons) Environmental Science

This course will give you an excellent understanding of environmental science and contemporary issues based on staff research. What's more you'll develop key skills required by employers, along with an understanding of how professional environmental scientists work. You'll also have a choice of modules in your second and final year, allowing you to tailor your degree to suit your interests.



Foundation year

- Academic Study Skills:
- Applied Sciences
- Introduction to Biology
- Introduction to Psychology
- Mathematics in Science
- Foundation Year Project



1st year

- Environmental Research Skills
- Fundamentals Environmental Science
- Physical Geography
- Chemistry
- Diversity of Life
- Residential Field Trip



BSc (Hons) Environmental Science

2nd year

Core units

- Advanced Skills for Environmental Science
- Applications of Environmental Science
- Environmental Pollution

Choose three options from

- Ecosystems
- Geographical Information Systems
- Environmental and Societal Challenges
- International Field Trip
- Behavioral Ecology
- Microbiology
- Marine Geography
- Quaternary Environments

Spend a semester abroad

- University of Malta and Universidad de Jaén, Spain
- One semester during your second year



3rd year

- Independent research project

Choose four options from:

- Globalisation and Sustainable Development
- Climate and Environmental Change
- Applied Biogeography
- Remote Sensing of the Environment, Earth Surface Processes and Landforms
- Topics in Wildlife Conservation
- Environmental Law and Management
- Biological Oceanography
- Emergence and Extinction
- Freshwater Resource Management
- Marine Conservation



Year 1 – 24% of time spent in timetabled learning & teaching activities

- Learning and teaching: 233 hours
- Independent learning: 967 hours
- Non-assessed learning and teaching: 20 hours

Year 2 – 23% of time spent in timetabled learning & teaching activities

- Learning and teaching: 309 hours
- Independent learning: 891 hours
- Non-assessed learning and teaching: 6 hours

Year 3 - 14% of time spent in timetabled learning & teaching activities

- Learning and teaching: 175 hours
- Independent learning: 1025 hours
- Non-assessed learning and teaching: 6 hours

Note: Contact hours in years 2 & 3 may vary according to the optional units selected

- **Gain essential work experience!**
- Two 5 week placements at end of 1st and 2nd year
- Optional 30 week placement (3rd year)
- Funding available through International Travel Grants

“Two thirds of employers believe gaining practical experience is the most valuable step you can take to improve your employment prospects. Practical experience brings advantages that nothing else can match.”

(Source: 2010 CBI/EDI Education and Skills survey).

Placement Support

- Dedicated Placement Coordinator
- Placement & Employability Skills Seminars in 1st & 2nd year
- Help you to plan your placement to make sure you get the right experience
- Support if you need to move to another part of the UK or another country
- Close industry links mean we have a network of employers keen to work with our students



Example placements – 5 week

- **Environmental auditor** - Parenco oil and gas, Poole. Monitoring compliance with H&S at a local oil drilling site
- **Research assistant** - CEFAS laboratories, Weymouth. Investigating fish toxicology.
- **Environmental impact assessor** - Atkins Consultants, Hong Kong. Analysis of the impact of the construction of a new marina.
- **Research assistant** - Forest Research Centre, Farnham.
- **GIS analyst** - Halcrow, Abu Dhabi looking at coastal management and development using GIS
- **Carbon Management Officer** - Poole Borough Council

Example placements – sandwich year

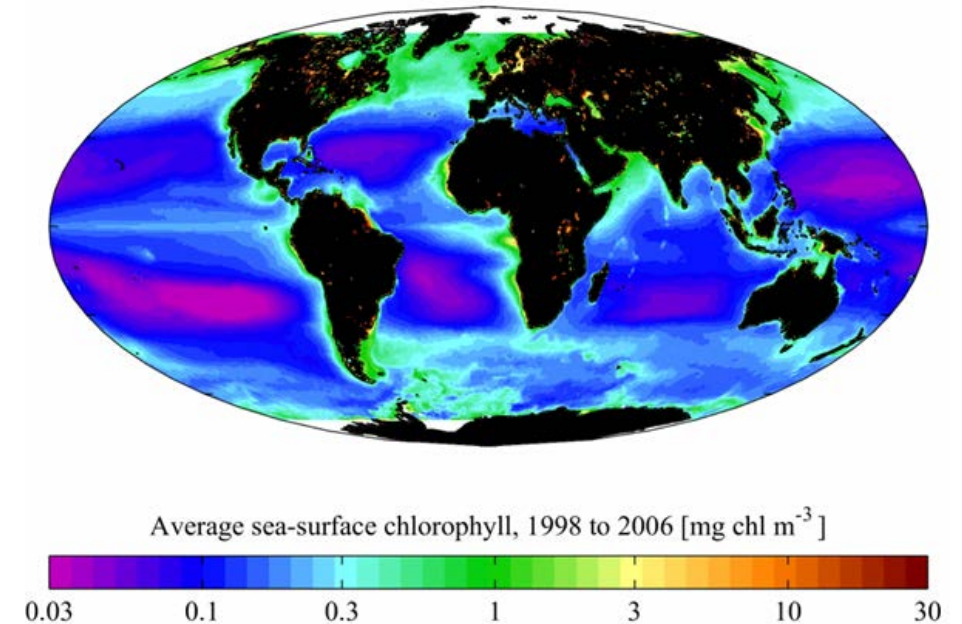
- **Environmental Consultant** – Siemens
- **Environmental Health and Safety Internship** – GE
- **Public and Community Engagement Coordinator** - The Ocean Conservation Trust
- **Project manager - control of alien species** – Environment Agency
- **Conservationist and field guide** - Kwantu Game Reserve, South Africa
- **Remediation student placement** – Keltbray
- **Small mammal keeper** - Bristol Zoo Garden
- **Environmental Consultant** - Ramboll



- 95% of our students employed, about to start work or in further education 15 months after graduating (Discover Uni, <https://discoveruni.gov.uk>)

You will be well qualified for:

- Environmental protection roles
- Environmental regulation
- Consultancy
- NGOs
- Further education
- Research degree
- Professional roles requiring good numerical and analytical skills



Example destinations

- **Flood and Coastal Risk Management Officer** for the Environment Agency
- **Technical Officer – Water Resources** for the Environment Agency
- **Technologist** – Solent Group
- **Graduate Environmental Scientist** at Wessex Water
- **Environmental Projects Officer** at Affinity Water
- **GIS Technician** at Camden Council.
- **Trainee Geography Teacher** - Colchester Teacher Training Consortium
- **PhD in growth and toxin content of cyanobacteria** – Bournemouth University
- **MRes in control of invasive non-native species** - Bournemouth University
- **MSc Environmental Engineering**, Sheffield University
- **MSc Climate Change Science and Policy**, Bristol University

Other ways you can get involved at BU and build your CV

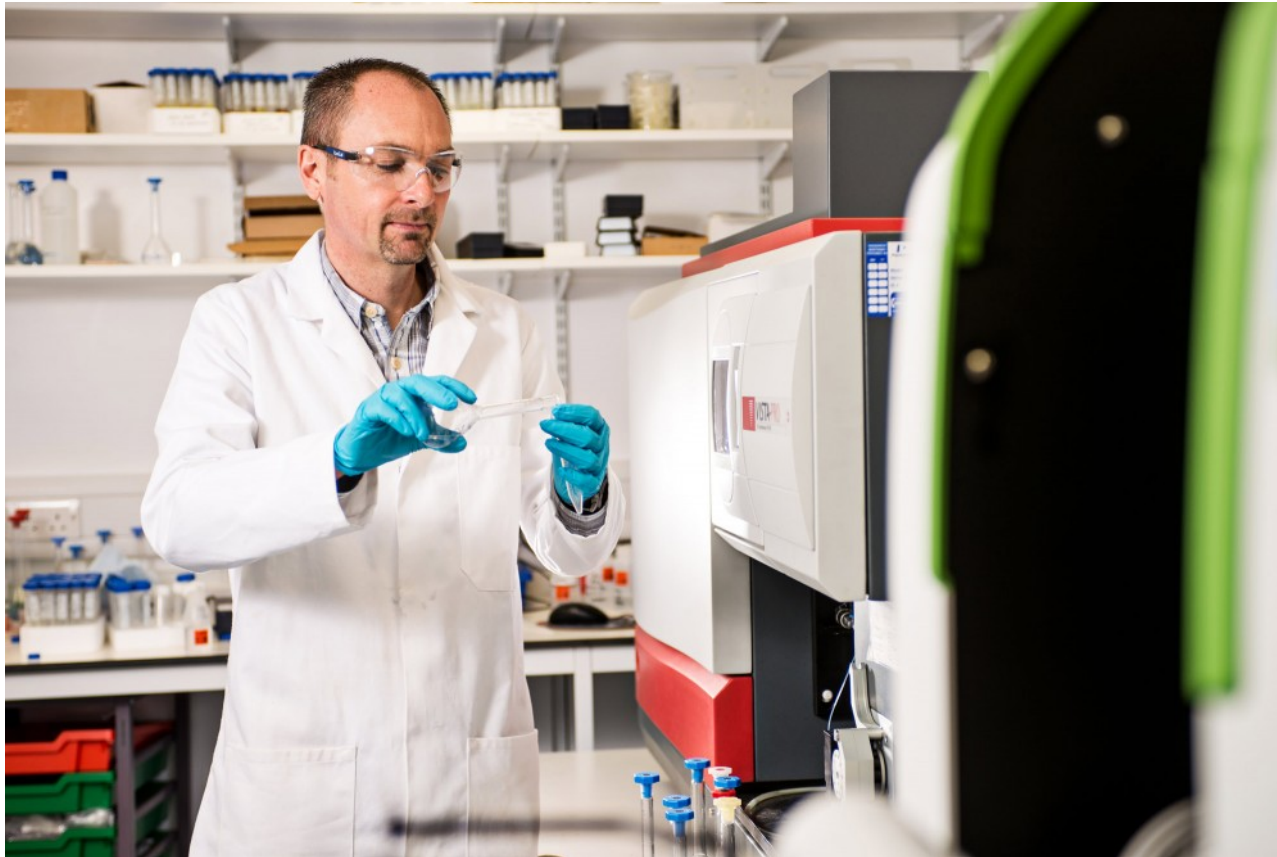


Image by Alexander Purnell with NPTX August 26, 2008

YOUR NAMEHERE

PERSONAL DATA

PLACE AND DATE OF BIRTH: Someplace, Italy | dd Month 1912
ADDRESS: CV Inn 19, 20101, Milano, Italy
PHONE: +39 123 456789
EMAIL: name.surname@gmail.com

WORK EXPERIENCE

Current | Trader at ENOI s.p.a., Milan
JAN 2009 | Physical Natural Gas Trading
Provided analysis of spreads, in particular time and location spreads, with emphasis on trading opportunities on the curve, also taking into account the availability of storage facilities. Became familiar with logistic implications of physical gas trading and developed knowledge of continental virtual hubs for gas exchange.

JUL-OCT 2008 | 1st year Analyst at LEHMAN BROTHERS, London
Commodities Structured Trading
Developed spreadsheets for risk analysis on exotic derivatives on a wide array of commodities (e.g. oil, precious and base metals), managed blotter and secondary trades on structured notes, liaised with Middle Office, Sales and Structuring for bookkeeping.

SUMMER 2007 | Summer Intern at LEHMAN BROTHERS, Capital Markets
Received pre-placed offer from the Exotics Trading Desk as a result of very positive review. Rated "truly distinctive" for Analytical Skills and Teamwork.

EDUCATION

JULY 2008 | Master of Science in FINANCE, Bocconi University, Milan
110/110 *summa cum laude* | Major: Quantitative Finance
Thesis: "Sublinear and Locally Sublinear Prices" | Advisor: Prof. Erio CASTAGNOLI
GPA: 28.61/30 | [Detailed List of Exams](#)

JULY 2006 | Undergraduate Degree in LAW and BUSINESS ADMINISTRATION
110/110 *summa cum laude*, Bocconi University, Milan
Thesis: "Portfolio Strategies with Target Prices" | Advisor: Stefano BONINI
GPA: 29.85/30 | [Detailed List of Exams](#)

FALL 2005 | Exchange Semester at University of Southern California, Los Angeles
GPA: 3.875/4 | [Detailed List of Exams](#)

JULY 2003 | Liceo Classico "E. Duni", Matera | Final Grade: 100/100

SCHOLARSHIPS AND CERTIFICATES

SEPT. 2006 | Scholarship for graduate students with an outstanding curriculum (€30,000)
JUNE 2006 | GMAT®: 730 (Q:50;V:39) 96th percentile; AWA: 6.0/6.0 (89th percentile)

LANGUAGES

ITALIAN: Mother tongue
ENGLISH: Fluent
FRENCH: Basic Knowledge

Student Research Teams for project team-based experience



SERT Expeditions



Student societies & SUBU Green Task Force



Diverse opportunities for learning & demonstrating skills gained to future employers



Bournemouth University
Dept of Life & Environmental Sciences
Co-creating Science
STAFF | STUDENTS | PRACTITIONERS

Learning in partnership
with academic staff and
professional
practitioners e.g.

- Individual Placements
- SERTs
- Research Assistants
- Class Projects
- Dissertation
- Outreach Events

On your mobile ➡ <http://www.cocreate4science.org/>

Thank you

What's next ...

Tour / talk to us

- Following this talk

Visit us in the Sports Hall

- Find out more details about the course
- Have any questions answered

