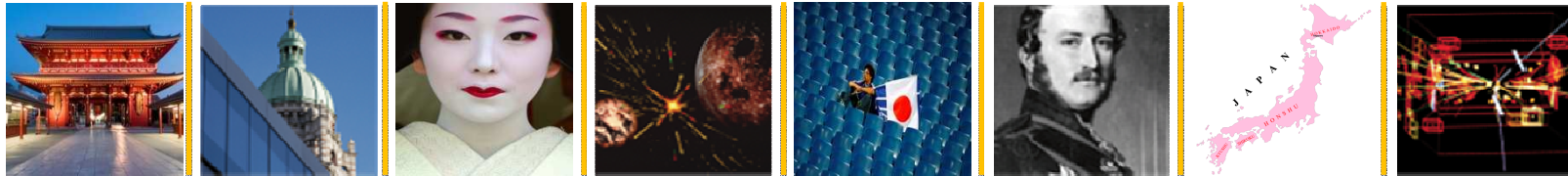


An overview of Imperial

100 years of living science



Professor David Gann

Imperial Ambassador

Head of Innovation and Entrepreneurship, Tanaka Business School

21 February 2008 • Tokyo, Japan

Our history

1851–1890 Constituent Colleges formed
Prince Albert and the Great Exhibition

1907 Imperial College founded by merger of:

- City and Guilds College
- Royal College of Science
- Royal School of Mines

1988–2000 Mergers with:

- St Mary's Hospital Medical School
- National Heart & Lung Institute
- Charing Cross/Westminster and Royal Postgraduate Medical Schools
- Kennedy Institute

2000 Merger with Wye College

2007 Centenary
Independence from the University of London



100 years of living science



“It has been a century of great achievement, and my thanks go to all the people, the staff and the students, whose work over the decades has enabled Prince Albert’s vision to flourish”

Her Majesty The Queen, 9 July 2007

Our standing

Times Higher Education Supplement
World University Rankings 2007:

- | | | |
|-----------------------------------|---------------------------------|------------------------|
| • 3rd in Europe | 5th in World | overall |
| • 2nd in Europe | 6th in World | for technology |
| • 3rd in Europe | 7th in World | for biomedicine |
| • 3rd in Europe | 13th in World | for science |

Financial Times' MBA ranking

- **1st** in Europe for entrepreneurship

Times Good University Guide 2008

- **3rd** in UK

THE TIMES
HIGHER
EDUCATION SUPPLEMENT

FT
FINANCIAL
TIMES

THE  TIMES

Our estate



Six London campuses

- Charing Cross
- Chelsea and Westminster
- Hammersmith
- Royal Brompton
- South Kensington
- St Mary's



Two campuses in South East England

- Silwood Park, Ascot
- Wye, Kent



Current campus renewal



Sports centre and student residences:

- Newly refurbished Sports Centre opened in 2006
- Southside Halls of Residence reopened in September 2007
- Eastside Halls are currently being redeveloped and will reopen in 2009

Library:

- Newly refurbished library will reopen in Summer 2008
- Emphasis on tools for collaborative working
- Electronically enabled environment

Union Building in Beit Quad:

- Enhanced spaces for 250+ clubs and societies
- Social space to represent Imperial's diverse student body

Our students

13,000 students

- **8,300** undergraduates
- **2,200** taught postgraduates
- **2,500** research postgraduates

Courses

- **111** undergraduate courses
- **124** postgraduate taught courses
- **7:1** Ratio applications to admissions
- **AAB** Average A-level entry grade



An international institution

Students from **123** countries

Top non-UK countries:

- China
- Malaysia
- Greece
- France
- Germany
- Singapore
- Italy
- Nigeria
- Cyprus
- India

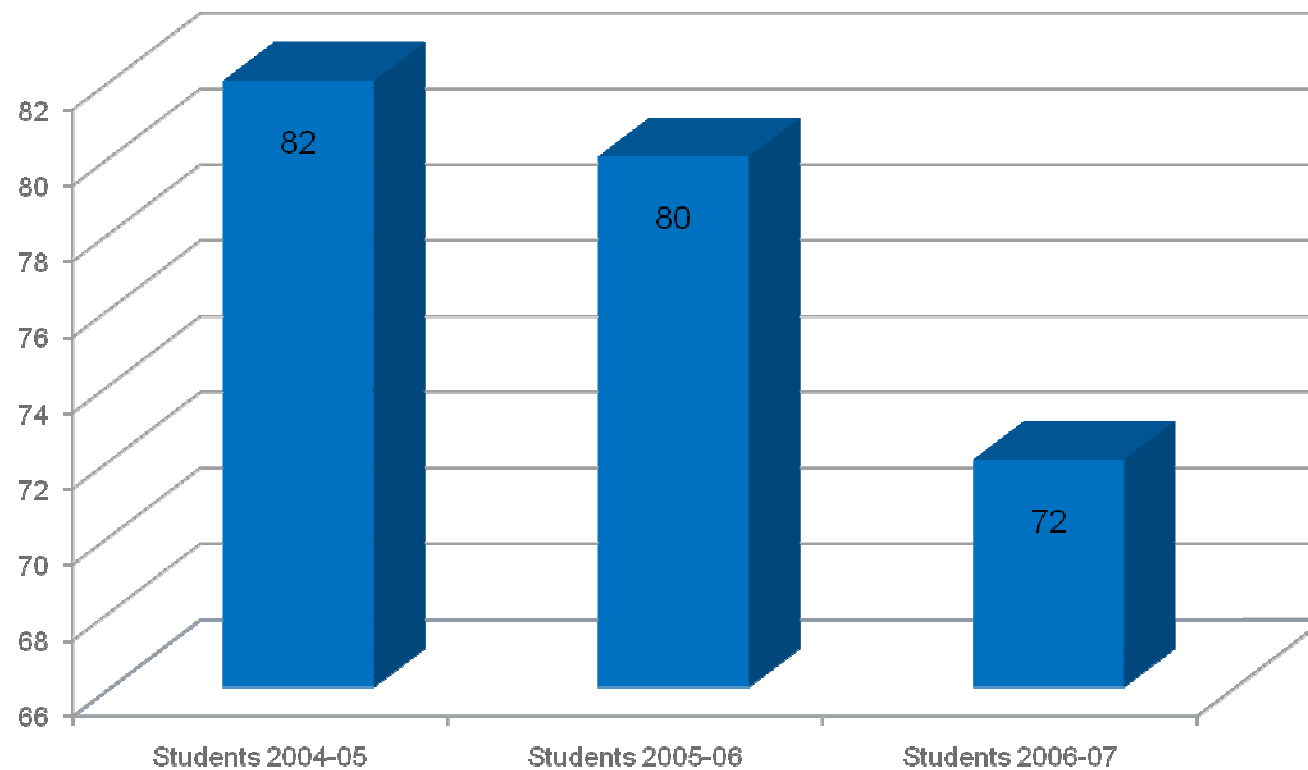
75% increase in
overseas students
in 5 years

32% of staff non-UK nationals

34% of alumni live overseas



Imperial students from Japan 2004-2007



Numbers of full-time students per year at Imperial from Japan

Our alumni

140,000 former students on database:

- **95,774** contactable
- **89,888** postal addresses
- **35,429** email addresses

Alumni in **190** countries

Top non-UK countries of residence:

- Greece
- USA
- France
- Hong Kong
- Singapore
- Malaysia
- Australia
- Canada
- Germany
- Italy



Famous alumni faces

Among our alumni are:

- Inventors of the first aniline dye, the post-it™ note, the chemistry behind the catalytic convertor, the palm pilot and the non-drip teapot



- CEOs of BP, Rolls-Royce, Singapore Airlines



- Chair of the Commission for Racial Equality
- Chief of the Air Staff, Royal Air Force
- First person to run a mile in under four minutes
- Olympic Gold Medalists
- Lead guitarist of rock group Queen



Alumni in Japan

The College is in touch with a total of **542** alumni in Japan:

- 282 postal addresses ONLY
- 260 email also

76% of alumni are male, 24% female

High concentrations of engineers:

- Faculty of Engineering 40%
- Faculty of Natural Sciences 39%
- Tanaka Business School 14%
- Faculty of Medicine 7%



International events in 2007

40 events in 20 countries across the world

- Celebratory dinners and social events by alumni groups
- Events also organised by the Office of Alumni and Development
- Visits and presentations by Imperial International Ambassadors

- **April 2007**

Gala dinner in Hong Kong

- **June 2007**

Meeting with Professor
Nelson Phillips in Japan

- **Nov 2007**

Seminars, dinners, talks
and convocation ceremony
held in Malaysia, Singapore,
Thailand and India

Other events held in Australia,
Argentina, the Cayman Islands,
China, Germany, France and
the US.



International Ambassador Scheme

1,880 alumni attending international Ambassador events in the College's Centenary year

15 Ambassadors taking part in **25** different events across the world

8 alumni groups re-launched or inaugurated as a result of an Ambassador visit

16 international alumni groups in **13** different countries have hosted an Ambassador event

Of all alumni attending Ambassador events in 2007, **76%** resided in Asia

150,719.51 - the combined mileage of academics business travel, including Ambassador events



Forthcoming international alumni events in 2008

San Francisco, USA | 23 February | *Winter Dinner* – Alumni dinner organised by the Imperial College Alumni Association of Northern California

Bangkok, THAILAND | 7 March | Professor Christopher Kennard, Faculty of Medicine

Mumbai and Delhi, INDIA | 10 – 13 March | Professor Dorothy Griffiths, Tanaka Business School

Sydney, AUSTRALIA | 28 March | Reunion for RSM alumni



Alumni benefits

Come back and visit us

- Programme of alumni events and reunions
- Access to other College events
- **Annual Alumni Reunion**
Save the date! 20 September 2008

Keep in touch

- Regular programme of communications
- Interactive website
 - Informal career advice from fellow alumni
 - Search for former classmates and friends
 - Imperial email forwarding address
 - Catch-up entry and online data updates

Enjoy the benefits of your continuing connection

- Alumni networks and groups
- On-campus services
 - Library
 - Discounted sports centre, accommodation and language courses
 - Careers service



Alumni giving back

Alumni volunteers

- Over 60 active alumni groups in the UK and overseas run by committed alumni

Annual Fund

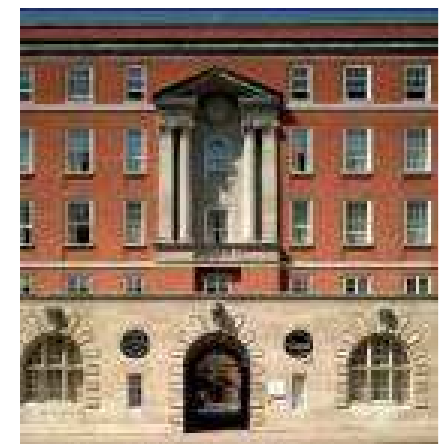
- Alumni have given funds towards
 - Student Opportunities Fund
 - Library redevelopment
 - Union Building redevelopment

Student recruitment

- Overseas alumni and alumni groups working actively with the International Office to help recruit new Imperial students

Informal advice

- Alumni-alumni and alumni-student career networks



Among our science stars of the past



George Finch (1888-1970) developed breathing apparatus to be used at high altitudes which he tested at 27,300 feet on Everest, higher than any human had previously climbed



Henry Tizard (1885-1959) helped develop the radar, which he supervised as chairman of the Aeronautical Research Committee in the run-up to WWII

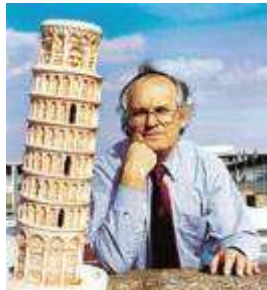
Eric Laithwaite (1921-1997) developed magnetically-levitated (maglev) high-speed trains



David Potter (1943-) went on from Imperial to form the IT company PSION that launched its first volume-produced handheld computer in 1984

William Hamilton's (1936-2000) work provided the basis for a gene-centric view of evolution

Among our science stars of today



John Burland prevented the Leaning Tower of Pisa from toppling over

Magdi Yacoub pioneered techniques for heart and heart-lung transplantation



Donal Bradley developed polymer light devices emitting used widely in devices such as mobile phones

Julia Higgins is renowned for her research into the behaviour of complex materials and her work to promote the participation of women in science



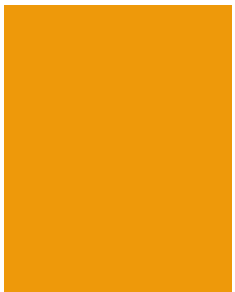
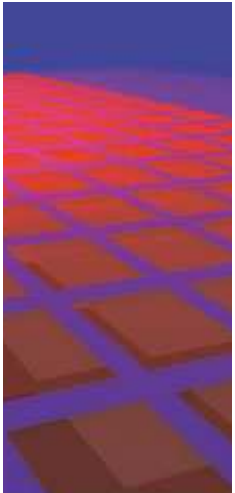
Marc Feldmann and Ravinder Maini have researched extensively on rheumatoid arthritis and made major breakthroughs in its treatment

Recent achievements



- David Edwards was awarded the **Arvo Ylppö medal** in recognition of special contributions to medicine for newborn infants.
- The Schistosomiasis Control Initiative won a **Queen's Anniversary Prize**.
- Postgraduate student James Kirkpatrick was awarded the **Institute of Physics' annual Roy Prize** for his thesis in the field of condensed matter and materials physics.
- The Faculty of Engineering has been awarded four **grants totalling €6.5 million** in the European Research Council's inaugural Starting Independent Research competition.
- Professor John Beddington was appointed **Chief Scientific Advisor** to the Government.
- Lord Darzi named **Parliamentary Under Secretary** in the Department of Health.

Recent research



- Computer processing power could be revolutionised by a **new technique for controlling the magnetic properties of a commonly used blue dye** called Metal Phthalocyanine.
- Scientists have **identified three genes**, ITGAM, P XK, and one mutation within a gene KIAA1542, associated with Lupus.
- A **new technique which collects fingerprints** along with their chemical residue could potentially detect the diet, race and sex of a suspected criminal.
- A **'barcode' gene** that can distinguish between plant species has been identified by scientists and could lead to new ways of easily cataloguing different types of plants in species-rich areas like rainforests.
- A **new generation of sensors** for detecting explosives and poisons could be developed following new research into a type of radiation known as T-rays.

Interdisciplinary workings

Combining our disciplines leads to new capabilities, bringing together expertise from across Imperial to tackle some of world's greatest problems

Energy Futures Lab

- Research programmes to meet broad energy challenges we face

Grantham Institute for Climate Change

- £12.8 million donation by the Grantham Foundation
- Research to develop mitigation techniques and influence international policy in climate change

Institute of Systems Biology

- Combating malaria and inflammatory diseases

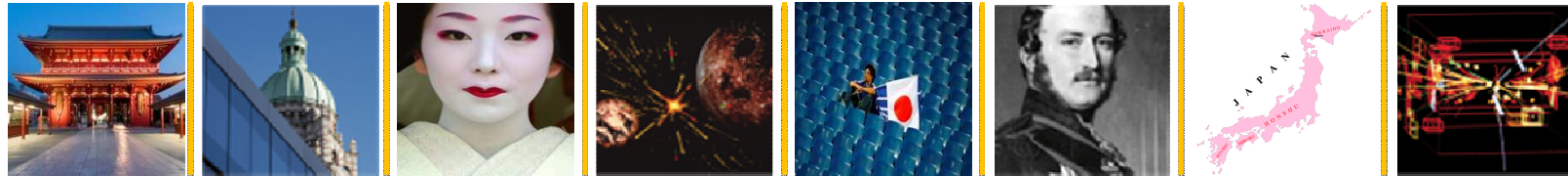
Institute of Biomedical Engineering

- Draws together scientists, medics and engineers to create revolutionary progress in medical diagnosis and treatment



Thank you

100 years of living science



Contact the Alumni Relations team at
alumni@imperial.ac.uk

21 February 2008 • Tokyo, Japan