

Glimpses of Academic Japan

Stephen M. Lyth

Chancellor's Fellow in Sustainable Energy

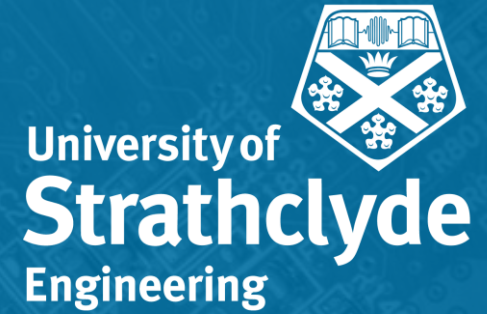
Chemical & Process Engineering, University of Strathclyde, UK

Visiting Professor, NEXT-FC, Kyushu University, Japan

Visiting Professor, Energy2050, University of Sheffield, UK

Honorary Associate Professor, University of Queensland, Australia

NICE STEP Researcher 2019 (MEXT, Japan)

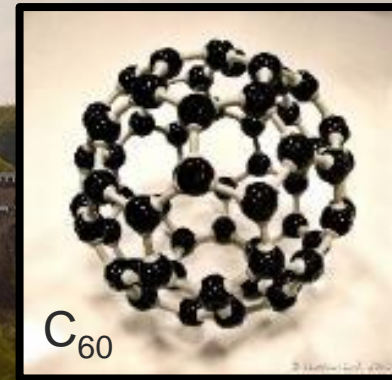




1999-2003

M.Sc. Physics

SONY



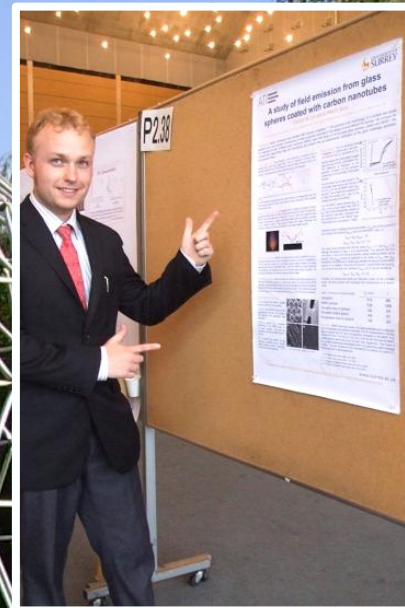
2003-2007

Ph.D. Electronic Engineering
Field Emission from Printed MWCNTs

1. Lyth et al., J. Solid State Sci. & Technol. 4, P3034 (2015)
2. Lyth et al., J. Vac. Sci. & Tech. B, 27, 1068 (2009)
3. Lyth et al., App. Phys. Lett., 94, 123102 (2009)
4. Watts et al., J. Nanosci. & Nanotechnol., 2147 (2008)
5. Lyth et al., Applied Physics Letters, 90, 173124 (2007)
6. Lyth et al., Applied Physics Letters, 90, 013120 (2007)
7. Watts et al., Appl. Phys. Lett., 89, 103113 (2006)
8. Lyth et al., J. Vac. Sci. & Technol. y B, 24, 1362 (2006)
9. Silva et al., J. Nat. Sci. Found. Sri Lanka, 34, 3 (2006)



Ravi Silva CBE



IVEC2007



Subject: Engineering: Materials Science

Yokohama City University

Title: Electronic Properties of Protein Nanotubes and Nanowires



Japanese



About Us

Programs

Contact Us



Attracting Excellent Researchers from Other Countries to Japan

Postdoctoral Fellowships for Research in Japan

Standard Program (Standard)

Japanese

International Fellowships
Research in Japan

Top

Postdoctoral Fellowships for Research in Japan

Summer Program

Short-term Program (I/E)

Short-term Program (A)

Standard Program

About the Program

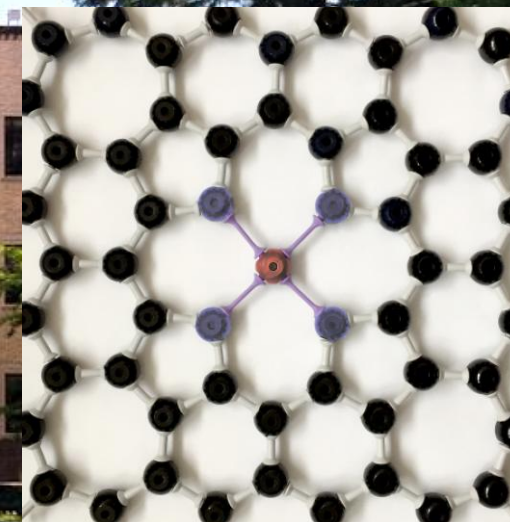
The program provides an opportunity to conduct collaborative research for young overseas researchers under the guidance of their hosts at universities and other research institutions in Japan.

The selection process for Postdoctoral Fellowships for Research in Japan (Standard) is conducted through two distinct channels: Open Calls and Nominations. The former begins with applications from the heads of Japanese universities or research institutions wishing to invite foreign researchers and requires a selection process to designate Fellows, while the latter designates Fellows through recommendations from overseas nominating authorities.

【Offering was ended】 Strategic Program



2008-2011



1. ORR Activity of Carbon Nitride Supported on MWCNTs, S. M. Lyth, Y. Nabae, N. M. Islam, S. Kuroki, M. Kakimoto, S. Miyata, Journal of Nanoscience and Nanotechnology, 12, 4887, (2012)
2. Solvothermal Synthesis of Nitrogen-Containing Graphene for Electrochemical ORR, S. M. Lyth, Y. Nabae, N. Islam, et al. eJournal of Surface Science and Nanotechnology, 10, 29-32 (2012)
3. Electrochemical ORR of Carbon Nitride Supported on Carbon Black, S. M. Lyth, Y. Nabae, N. M. Islam, S. Kuroki, M. Kakimoto, S. Miyata, J. Electrochem. Soc., 158, B194 (2011)
4. Electrochemical ORR on Carbon Nitride, S. M. Lyth*, Y. Nabae, N. M. Islam, S. Kuroki, M. Kakimoto, J. Ozaki, S. Miyata, Electrochemical Society Transactions, 28, 11 (2010)
5. Carbon Nitride as a Non-Precious Catalyst for Electrochemical ORR, S. M. Lyth, Y. Nabae, S. Moriya, S. Kuroki, M. Kakimoto, J. Ozaki, S. Miyata, J. Physical Chemistry C, 113, 20148 (2009)
6. The Role of Fe in the Preparation of Carbon Alloy Cathode Catalysts, Y. Nabae, M. Malon, S. M. Lyth, S. Moriya, K. Matsubayashi, et. al., ECS Transactions, 25, 463 (2009)



KYUSHU UNIVERSITY

2011 - 2022



**Kazunari
Sasaki
(SVP)**

**International
Research Center
for Hydrogen
Energy (HY30)**

**Department of
Hydrogen
Energy Systems**



Graduates School of Integrated Frontier Sciences, Kyushu University
The Department of Automotive Science

NEXT-FC
Next-Generation Fuel Cell Research Center



Thank you JSPS....



KYUSHU
UNIVERSITY

Assistant Professor



I²CNER

2014 JSPS Postdoctoral Fellowship for Foreign Researchers (Host)
2015 JSPS Grant-in-Aid for Young Scientists B (PI)



Associate Professor



Graduates School of Integrated Frontier Sciences, Kyushu University
The Department of Automotive Science

2016 JSPS **Summer Program** for Overseas Researchers (Host)
2017 JSPS **Summer Program** for Overseas Researchers (Host)
2018 JSPS Bilateral Joint Research Projects (PI)



Professor



2019 JSPS Grant-in-Aid for Scientific Research B (PI)
2021 JSPS Postdoctoral Fellowship for Foreign Researchers (Host)



University of
Strathclyde
Glasgow



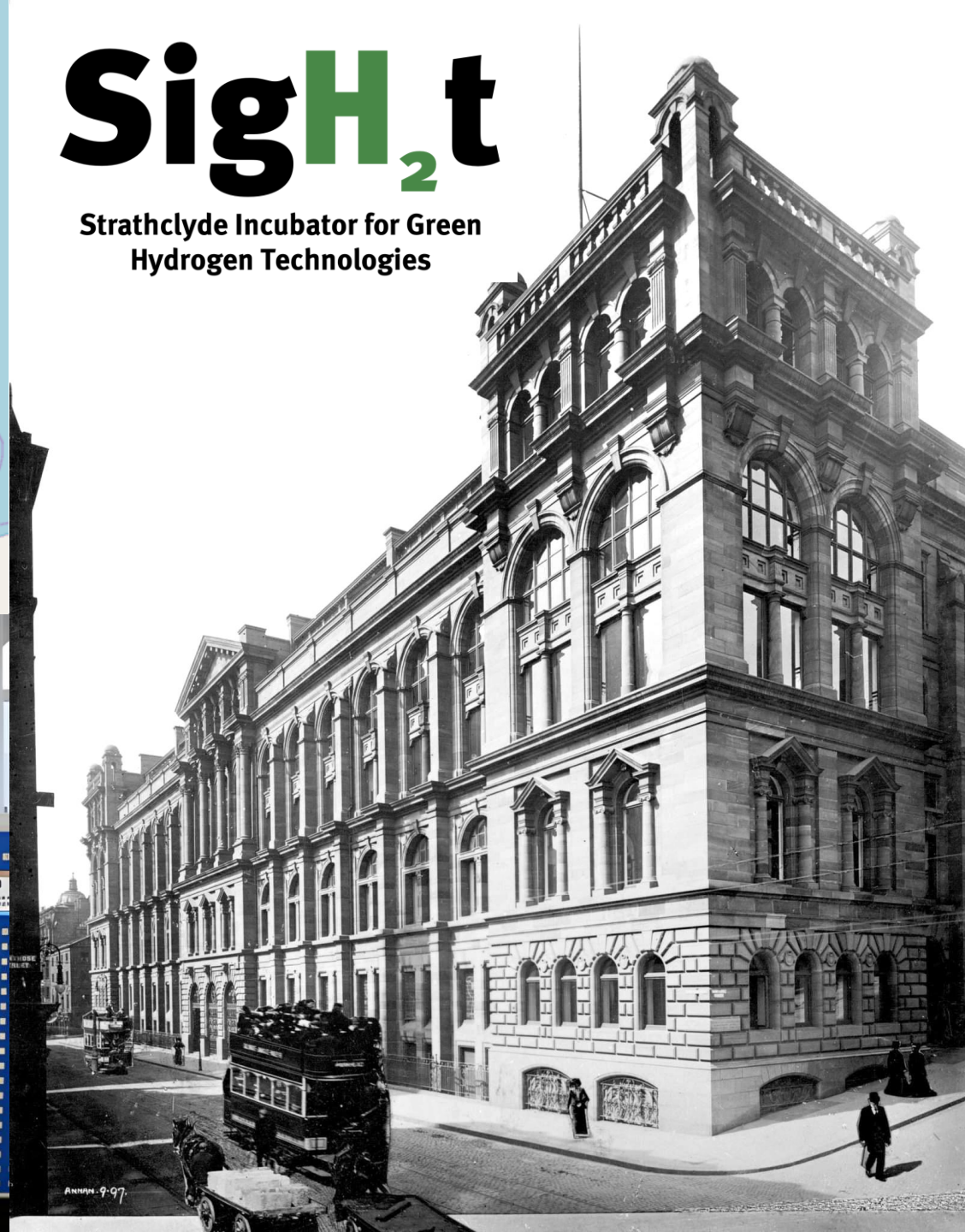
SigH₂t

Strathclyde Incubator for Green
Hydrogen Technologies



2022 ~

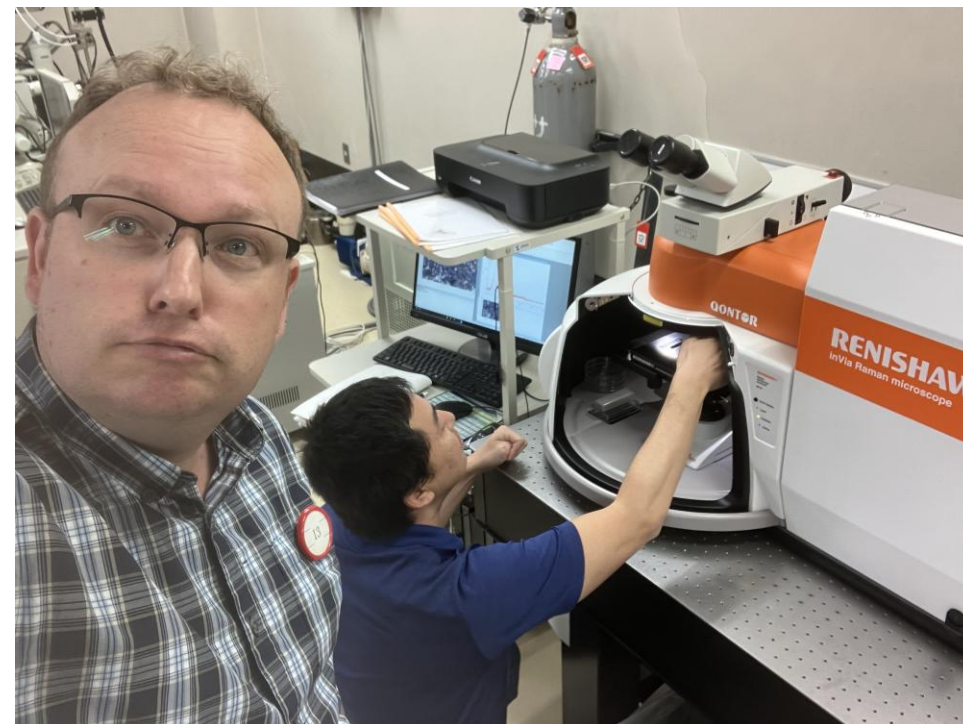
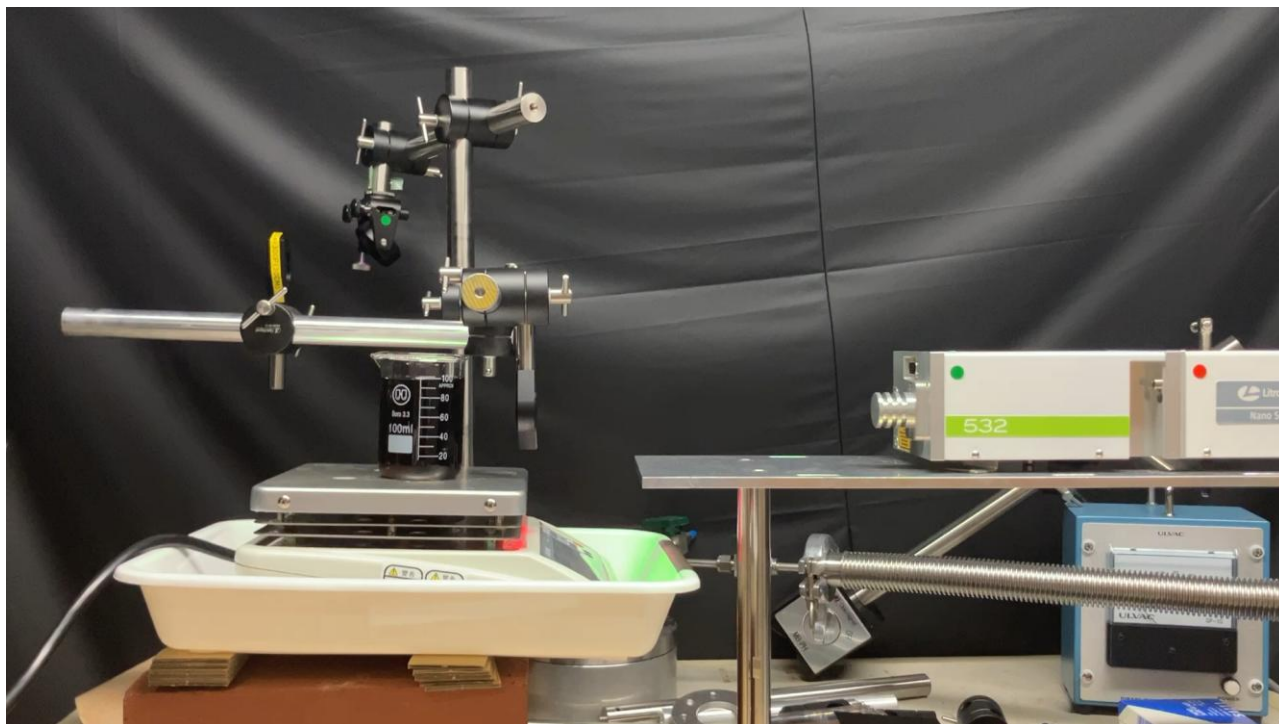
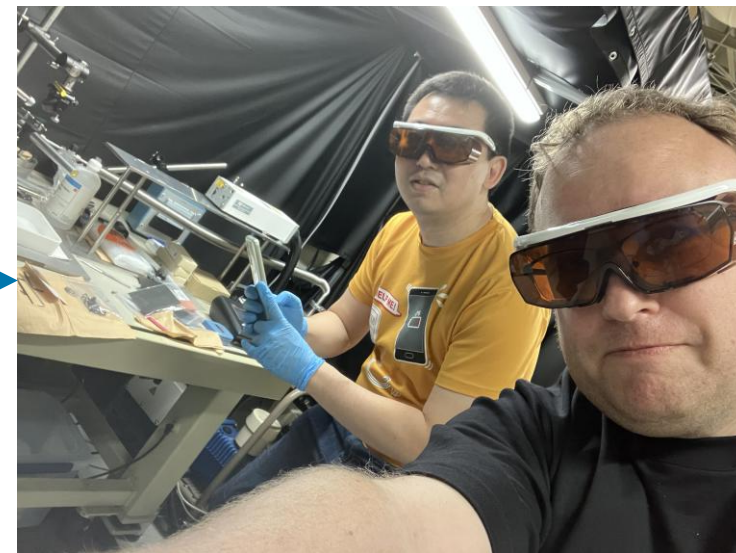
Chemical & Process Engineering





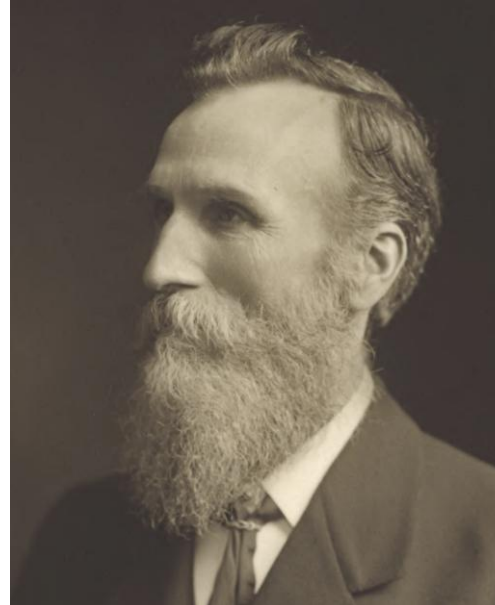
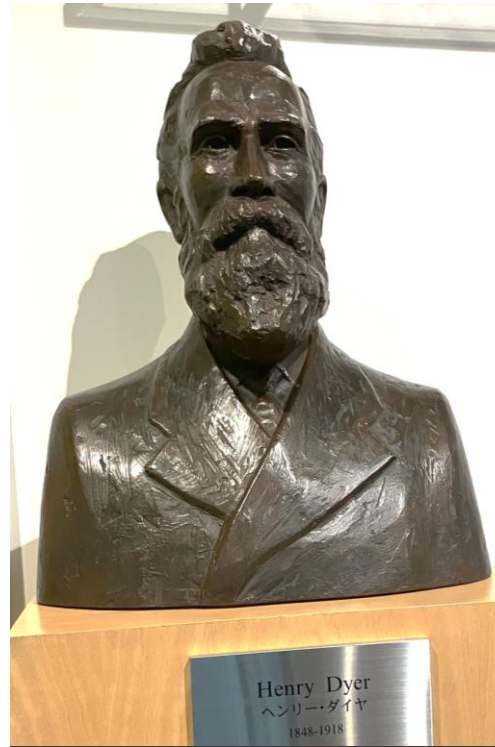
JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE
日本学術振興会

Invitational Fellowship

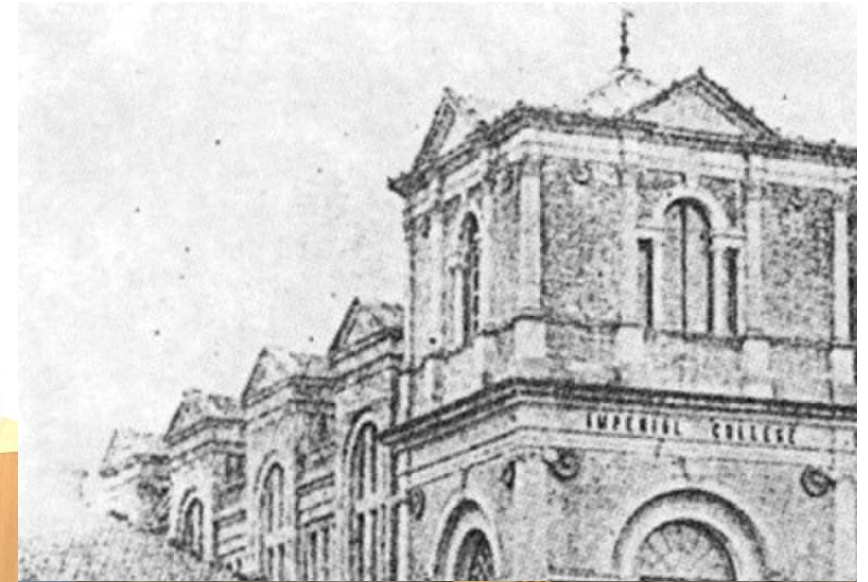


Henry Dyer (1848 – 1918)

- Studied at Anderson's College (**University of Strathclyde**) before moving to Japan.
- First **Principal of the Imperial College of Engineering** (later became Tokyo University Faculty of Engineering).
- Emperor Meiji awarded him the **Third Class of the Order of the Rising Sun**.
- Eventually **returned to Glasgow** as a Life Board Member of the **University of Strathclyde**.
- Building named after him at the University of Strathclyde.



Imperial College of Engineering



University of Strathclyde

Stephen's Research Survival Guide for Japan



Do:

Embrace the Challenge – It *will* be hard, but it's also a once-in-a-lifetime opportunity.

Connect with Researchers – Talk to experienced international researchers to better understand the lab dynamics and university culture.

Learn Proactively – Seek out techniques and skills that aren't available back home.

Be Punctual – Timekeeping is important. Being on time shows respect.

Dress Smart-Casual – Modest, neat attire is the norm. Cover shoulders and avoid overly casual wear.

Observe and Adapt – Watch how others behave in labs, meetings, or public transport - and follow their lead.

Remove Shoes Where Appropriate – Especially in homes, some traditional accommodations, and even some labs.

Explore Locally – Visit cultural and historical sites—you're there to grow as a person too.

Eat Out Often – The weak yen means dining is affordable. Solo dining is normal—enjoy it!

Stephen's Research Survival Guide for Japan

✗ Don't:

Expect Everyone to Speak English – Many people don't, though signage is usually bilingual. An opportunity to learn some simple phrases and katakana / hiragana!

Be Loud – In public spaces and in workplaces, keep your voice down. Offices and public transport can seem eerily silent...

Ignore Safety Norms – Health and safety standards can differ in Japan compared to the UK; stay alert and look out for yourself.

Ignore Paperwork – Administrators are your friend and can get you out of many pickles. Keep them happy by responding to admin tasks promptly.

Forget who's the Boss – You will normally be treated as a guest, getting away with a lot. However, Japan is strongly hierarchical, and Professors sometimes act as dictators!

Relax too much – Japan is really very safe, until it isn't. Be aware of your surroundings especially in downtown environments involving alcohol.

Be Passive – Don't waste this amazing opportunity!

Yamao Yozo (1837-1913)

- **Samurai** from Yamaguchi, south Japan.
- Set fire to the British Legation building!
- Became one of the **Choshu Five**.
- Studied in England from 1863 at **UCL**.
- Then moved to **Glasgow** to learn **shipbuilding** on the Clyde Estuary.
- Attended Anderson's College (which became the **University of Strathclyde**).
- Returned after Meiji Restoration.
- Took charge of **Yokosuka Shipyard**.
- Created the **Ministry of Public Works**.
- Established the **Imperial College of Engineering** in 1877.
- Introduced **sign language** to Japan.
- **Auld Lang Syne** (you will hear this).
- **Just normal exchange student achievements...**





Have a great
time exploring!