

SENATE

Minutes of Meeting held on 20 May 2015

Present: The Provost, Professor James Stirling (Chair); Professors Autio, Cilliers, Gardner, Gibson, Green, Humphris, Matar, McCoy, McGregor, Nash, Parry, Richardson, Smith, Thompson, Welton; Drs Buluwela, Craig (representing Professor Magee), Fobelets, Gounaris, Kingsbury; Mr Tebbutt; Mr Loose, Mr Wheeler (Student Representatives); with Mr Pateman (Academic Registrar) and Ms Baker (Senior Assistant Registrar).

Apologies: Professors Anandalingam, Magee, Riboli, Screatton, Wright; Associate Professor Miraldo; Drs Archer, McPhail; Ms Mahmud (Student Representative).

In attendance: Mr Bond (Management Trainee in Student Recruitment and Outreach), Mr Neilson.

The Provost welcomed Professor Richard Green as a new member of the Senate, and welcomed Mr Bond as an observer to the meeting.

1967 Minutes

The Minutes of the meeting of the Senate held on 25 February 2015 were confirmed.

1968 Matters Arising

Minute 1950: Appointments in the Business School

Reported: (i) That the Council had approved an amendment to the membership of the Senate to include one Head of Department from the Imperial College Business School, appointed by and from their number.

(ii) That the member thus appointed was Professor Richard Green, Head of the Department of Management.

Minute 1953: A-Level Reform

Noted: That the draft College statement in response to the A-Level reforms would be presented for Senate approval (Paper 59 of the Senate Agenda).

1969 Provost's Business

Received: A Report from the Provost (**Paper Senate/2014/55**).

(1) Chair of Council

Reported: That Sir Philip Dilley had taken up appointment as the Chair of the Council and of the Court of Imperial College London, in succession to Baroness Manningham-Buller, with effect from 18 May 2015, and had been appointed for an initial four year term to 31 May 2019.

(2) Dean in the Faculty of Medicine

Reported: That Professor Gavin Screaton had taken up appointment as Dean of the Faculty of Medicine, in succession to Professor Dermot Kelleher, with effect from 1 March 2015.

(3) Faculty of Natural Sciences – Vice Deans

Reported: (i) That Professor Paul French had taken up appointment as the Vice-Dean (Research) of the Faculty of Natural Sciences with effect from 1 April 2015.

(ii) That Professor Alan Spivey had taken up appointment as the Vice-Dean (Education) of the Faculty of Natural Sciences. The appointment had been announced on 9 March 2015, and with immediate effect.

(4) Faculty of Engineering Senior Appointments

Reported: (i) That Professor Peter Haynes had accepted appointment as Head of the Department of Materials for five years with effect from 1 July 2015, in succession to Professor Neil Alford FEng.

(ii) That Professor Eric Yeatman had accepted appointment as Head of the Department of Electrical and Electronic Engineering for five years with effect from 1 September 2015, in succession to Professor Peter Cheung.

(iii) That Dr Lorraine Craig, Academic Tutor in the Department of Earth Science and Engineering, had accepted the additional appointment as Associate Dean for Learning and Teaching for the Faculty of Engineering.

(iv) That Professor Peter Cheung would continue to serve for a further two years as the Faculty's Vice Dean for Education, until 31 July 2017.

(v) That Professor Neil Alford would continue to serve as the Faculty's Vice Dean for Research for a two further years, until 31 July 2017.

(5) Fellowship of the Royal Society

Reported: That the following staff had been elected to the Fellowship of the Royal Society:

Professor David Phillips, Senior Research Investigator in the Department of Chemistry;

Professor Richard Thomas, Professor of Pure Mathematics in the Department of Mathematics.

Further Reported: That the Senate congratulated these staff on their achievements.

(6) Imperial College Medals

Reported: That Professor Stephen Richardson, Associate Provost (Institutional Affairs) and Professor Henry Rzepa, Emeritus Professor of Computational Chemistry, had been presented with the Imperial College Medal at the recent Postgraduate Awards Ceremony.

Further Reported: That the Senate congratulated these staff on their achievements.

(7) The Julia Higgins Award

Reported: (i) That the 2014 -15 Julia Higgins Medal had been awarded to Dr Liz Elvidge,

Head of the Postdoc Development Centre, in recognition of her work with female postdocs and early career academics.

(ii) That Julia Higgins Awards in 2014 -15 had been made to the following staff:

Dr Karen Makuch, Academic Women's Ambassador for the Faculty of Natural Sciences and Lecturer in Environmental Law, Centre for Environmental Policy;

Ms Su Nandy, Senior HR Manager, Faculty of Engineering;

Professor Lesley Regan, Clinical Professor, Department of Surgery & Cancer;

Dr Vicky Salem, Academic Women's Ambassador for the Department of Medicine and NIHR Clinical Lecturer, Department of Medicine;

Dr Emma Watson, Education Manager in the National Heart & Lung Institute.

Further Reported: That the Senate congratulated these staff on their achievements.

(8) Nanyang Education Gold Award

Reported: That the Senate congratulated Professor Jenny Higham, Vice Dean (Educational and Institutional Affairs) in the Faculty of Medicine, on receiving the Nanyang Education Gold Award for her instrumental work in the founding of the Lee Kong Chian School of Medicine (LKCMedicine).

(9) Athena SWAN Awards

Reported: That the Senate congratulated the Department of Aeronautics on having recently achieved the Athena SWAN bronze award, and the Department of Medicine on having been successful in upgrading from a bronze award to a silver award.

(10) Student Academic Choice Awards (SACAs)

Reported: (i) That the SACAs had been established by Imperial College Union to enable students to reward excellence and innovation amongst Imperial's academic and professional staff, and had been awarded for the first time in 2013.

(ii) That the award winners in 2015 had been announced in a ceremony held recently in the Union Building which had celebrated every short-listed nominee as well as the award winners.

(iii) That over 800 nominations had been received, for over 400 members of staff, and that nominations had been received from every part of College, including every faculty, department and campus.

Further Reported: That the Senate congratulated the Union's sabbatical team and staff for having delivered a magnificent event.

Reported: (iv) That the following staff had been selected as Student Academic Choice Award winners in 2015:

Best Supervision: Dr John Pinney (Department of Life Sciences);

Best Graduate Teaching Assistant: Claudia Schulz (Department of Computing);

Best Teaching for Postgraduates: Dr Michael Jones (Department of Medicine);

Best Tutoring: Martin Holloway (Department of Bioengineering);

Best Support Staff: Anup Jethwa, (Medicine - Northwick Park);

Best Teaching for Undergraduates: Dr Steven Cook (Department of Life Sciences);

Best Innovation: Dr Elizabeth Hauke (Horizons and Science Communication);

Best Feedback: Dr Paul Mitcheson (Department of Electrical and Electronic Engineering).

Further Reported: That the Senate congratulated these staff on their achievements.

1970 Vice Provost's Business

Received: A Report from the Vice Provost (Education) (**Paper Senate/2014/56**).

(1) National Student Survey 2015

Reported: (i) That the College's participation rate in the National Student Survey (NSS) 2015 was 77.13%, a decrease of 6.48% on the previous year, as outlined in appendix I of the Senate's paper.

(ii) That the HEFCE-approved results from the NSS would be published in early August 2015 and that the College would then closely review the results.

(iii) That significant enhancements had been made to the College's NSS ICA dashboard for the use of senior management and staff responsible for analysing the NSS results.

(2) Education Day 2015 – "Students as Partners"

Reported: That Education Day had taken place on Wednesday 11 March, and had been introduced jointly by the President of Imperial College London, Professor Alice Gast, and Imperial College Union President, Tom Wheeler. The theme of the event had been inspired by innovative developments at Imperial and beyond, and the programme had been planned and delivered by staff and students in partnership, as described in section 2 of the Senate's paper.

(3) Education Day 2016

Reported: That Education Day 2016 would take place on Wednesday 16 March 2016.

(4) Imperial STAR award

Reported: (i) That the STAR framework had been launched in October 2014, as outlined in appendix II of the Senate's paper.

(ii) That 'Introduction to STAR' and 'Pre-submission' workshops had been prepared and delivered to almost 200 participants.

(iii) That the Educational Development Unit had worked closely with the Graduate School, the Faculty of Engineering and the Department of Chemistry to deliver HEA-aligned training and support for learning and teaching to around 700 GTAs.

(iv) That the Educational Development Unit was working with the Graduate School to produce GTA specific support for the HEA Fellowship application process.

(v) That the first STAR Framework review panel had awarded 22 Fellowships, as outlined in appendix III of the Senate's paper, and that the next review panel meeting would be held at the beginning of June 2015.

(5) HEFCE Quality Assessment Arrangements

Reported: (i) That the HEFCE review process to define future approaches to quality assessment was underway. Having sought views on a range of issues via a discussion document, the second phase would be a consultation on more specific issues and options. It was expected that more formal options would be presented to the HEFCE Board in autumn 2015 and that there would be a pilot phase for new arrangements in 2016/17.

(ii) That the pilot phase would be an important opportunity to influence the final options.

(iii) That, in discussion with HEFCE, and in the context of developing the new Academic Standards Framework, the College had volunteered to pilot any new arrangements in 2016/17.

(6) Academic Standards Framework

Reported: (i) That the steering group agreed by Senate to co-ordinate and oversee the development of the new Academic Standards Framework and the preparation for the Higher Education Review (SM 1952 of 25 February 2015 refers) had now been established.

(ii) That the Academic Integrity 'task and finish' group had been established and would be Chaired by Professor Richard Thompson, as outlined in section 6.2.1 and appendix IV of the Senate's paper.

(iii) That the Complaints and Appeals 'task and finish' group had been established and would be Chaired by Professor Andrew Parry, as outlined in section 6.2.2 and appendix V of the Senate's paper.

(7) Varsity Investigation

Reported: (i) That the investigation into complaints related to the experience of student athletes at this year's Varsity tournament had been completed and had identified a number of failings.

(ii) That in addition to the findings, the investigation highlighted broader issues relating to the College's sporting strategy, sexism in sport more generally and excessive alcohol consumption.

(iii) That one of the actions to be taken was to set up a study into sexism in sport in College, to better understand our culture and to inform how we can address sexism.

(8) Imperial Summer

Reported: That as a result of the paper from the Group led by Ms Diane Morgan, the Provost's Board had approved the suggestion to establish a coordinating group as the College evolves the education and outreach offer over the summer.

(9) Yerevan Communiqué on future and priorities of the European Higher Education Area (EHEA)

Reported: That the Yerevan Communiqué had been endorsed by the European Ministers at the Ministerial Conference on the European Higher Education Area (EHEA) and Fourth Bologna Policy Forum on 15 May 2015, and that a revised ECTS Users' Guide had been endorsed and published.

(10) Update on Visa Requirements – changes to English language

Reported: (i) That UK Visas and Immigration had recently made changes to the Secure

English Language Test (SELT) providers for UK Visas, such that the only English language tests approved by the Home Office for immigration purposes were now IELTS and Trinity.

(ii) That as a Tier 4 Sponsor, Imperial was able to make its own assessment of students' English language ability and that the College had therefore decided to accept English language tests which meet the College's own entry requirements for admission to programmes taught at degree level, provided that the test certificate was valid and the scores achieved met the College's Standard level or Higher level requirements.

(iii) That the only exception to this would be in the case of pre-sessional English students studying below degree level who would have to take a Home Office Approved English language Test and provide evidence of this test with their visa application.

(iv) That a statement to this effect had been added to the College website and that information would be communicated to departments and briefing sessions would be arranged.

1971 Review of Postgraduate Teaching Provision in the NHLI

Considered and approved: A Report by the Quality Assurance and Enhancement Committee (**Paper Senate/2014/57**).

Reported: (1) That in its review of postgraduate teaching in the NHLI, the Quality Assurance and Enhancement Committee had been advised by five assessors who had visited the Institute on 10 July 2014.

(2) That the reviewers had considered the programmes to be well organised and of high quality, and that the staff had been found to be enthusiastic and committed to delivering excellent education and training in their field. In general, students had reported that the programmes had met or exceeded their expectations and that they were very appreciative of the training they had received. They had commented particularly on the contributions from external lecturers and the pastoral support provided.

(3) That Committee had been pleased that the overall impression of the programmes under review was very positive.

(4) That the panel had identified some aspects which were considered open to improvement and the Committee had considered the recommendations and the NHLI's responses to these.

(5) *NHLI Postgraduate Education Strategy* – That at the time of the review, the panel had found that there was a lack of coordination between different programmes and had not been convinced that NHLI had a coherent overall strategy for the future development of its Master's level provision (including the balance between science and vocational programmes). Since the review the Institute had been supporting the development of the Faculty of Medicine Taught Postgraduate Harmonisation Strategy and had developed a postgraduate taught strategy focussing on a small suite of clinical and science-based programmes which had a clear business case and matched the Institute's research and scientific strengths. In addition, the Institute had recently been granted Senate approval for a further programme, the MSc and Postgraduate Certificate in Advanced Therapeutic Strategies (SM 1956 of 25 February 2015 refers) [and SM 1979 (2.9) of 20 May 2015 refers]. The Institute was also intending to seek approval for one further programme, the MSc in Genomic Medicine.

(6) *Need for greater collaboration between courses* - That at the time of the review the panel had recommended that better integration and harmonisation of the programmes could be achieved by collaboration between the programme leaders, as well as an

improvement of documentation and more consistency in the operation of the programmes and the use of e-learning. Since the review, the Institute had reinvigorated the Postgraduate Taught Committee to ensure focussed, termly meetings. The development of the Faculty of Medicine Taught Postgraduate Harmonisation Strategy had also enabled greater collaboration between programmes and the Postgraduate Taught Committee was identifying additional areas for shared teaching.

(7) *Benefits of standardised course documentation* – That at the time of the review, the panel had been of the opinion that the programmes were not well integrated with each other, and that this was reflected in the lack of coordination between the programmes and the different style and quality of the programme documentation. For example, the panel had considered the programme handbook for Preventive Cardiology to be excellent, but had noted that those for the other programmes did not follow a similar template and could be significantly improved. The panel had recommended that coordination between the programmes and a standard format for student handbooks could improve this. The Department had confirmed that programme documentation would be addressed by the revised Postgraduate Taught Committee.

(8) *Requirement for cohort building* – That the panel had reported that students lacked a sense of belonging outside their individual programme. Most students had not identified themselves as being part of the NHLI, Faculty or College, leading to a feeling of isolation in some cases. The Department had confirmed that cohort identity would be enhanced by the introduction of new social events such as a shared welcome and induction event, annual lecture and prize-giving and spring and winter social events. The Committee had been sympathetic to the difficulties of building a cohort identity in faculties which ran a diverse range of provision and academic programmes on multiple sites.

(9) That the panel had identified a small number of specific points about each of the programmes and the Committee had noted that these had been addressed in the NHLI's response. The Chair of the panel had confirmed that he was satisfied with all of the responses to the recommendations as presented.

(10) That the Committee was satisfied with the action taken by the Department in response to the recommendations made, and had congratulated the NHLI on an overall positive review.

Agreed: That the Senate was satisfied with the outcome of the review and approved the recommendation of the Quality and Enhancement Committee that the NHLI should report to the Master's Quality Committee on developments since the periodic review as part of the annual monitoring process.

1972 Undergraduate Admissions Committee

Considered: A Report by the Vice-Provost (Education) (**Paper Senate/2014/58**).

Reported: (1) That the Provost's Board had approved new arrangements for the oversight of admissions and recruitment across the College, as outlined in the Senate's Paper 58.

(2) That a new Student Recruitment and Admissions Network would be established, to be Chaired by the Vice Provost (Education), with three sub-groups, each one dealing with a distinct sector of the student population (UG, PGT and PGR).

(3) That at undergraduate level, the Undergraduate Admissions Network had been established, Chaired by Professor Sue Smith, and that the Undergraduate Admissions Committee would cease to function.

(4) That a Student Recruitment and Monitoring Group would also be established, to be Chaired by the College Secretary and Registrar.

Agreed: That the Undergraduate Admissions Committee should be formally disbanded in the light of the new arrangements outlined in the Senate's paper, and that the Council should be asked to amend the Senate membership to remove the Chair of the Undergraduate Admissions Committee as an ex officio member.

Further agreed: That the Terms of Reference and Membership of the Student Recruitment and Admissions Network and sub-groups, and of the Student Recruitment and Monitoring Group, should be made available to Senate members to note.

1973 **A-Level Reform**

Considered: A Paper by the Undergraduate Admissions Network (**Paper Senate/2014/59**).

Reported: (1) That the Senate had resolved that a College statement on the A-Level reforms should be drafted and circulated to the Senate for agreement (SM 1953 of 25 February 2015 refers).

(2) That the Undergraduate Admissions Network had taken forward the discussion and had drafted a statement for further consideration.

(3) That the draft statement had been circulated to all admissions tutors for comment and that subsequent feedback had been incorporated prior to recirculating for final comments.

(4) That the draft statement had been presented to the Vice-Provost's Advisory Group for Education where it had been supported.

Agreed: The College statement on A-Level Reform as presented in Paper 59.

Further agreed: That the statement should be subject to regular review to ensure that it remains fit for purpose.

1974 **Quality Assurance and Enhancement Committee (QAEC)**

Considered: A Report by the Quality Assurance and Enhancement Committee (**Paper Senate/2014/60**).

(1) QAA Institutional Audit Action Plan: Summary of action taken to address recommendations from the QAA Institutional Audit 2010

Reported: That the College's action plan in response to the conclusions of the last Institutional Audit had recently been updated to include a commentary on each recommendation and to include reference to the Academic Standards Framework project.

Considered and approved: On the recommendation of the Quality Assurance and Enhancement Committee, the updated action plan, as outlined in section 1 and appendix I of the Senate's paper.

(2) Short Course Quality Committee (SCQC)

Reported: (i) That the Quality Assurance and Enhancement Committee had endorsed the decisions of the Short Course Quality Committee to approve Continuing Professional Development (not for credit) courses and Engineering Outreach Summer Schools, presented in section 2.1 of the Senate's paper, with immediate effect.

Considered and formally approved: On the recommendation of the Quality Assurance and Enhancement Committee, the five Continuing Professional Development (not for credit) courses as presented in section 2.1 of the Senate's paper, and the two Engineering Outreach Summer Schools:

- Engineering Summer School for 11-14 year old Girls

- EDT Headstart Broad Based Engineering as outlined in appendices II and III respectively of the Senate's paper, with immediate effect.

Further Reported: (ii) That the Quality Assurance and Enhancement Committee had endorsed the decision of the Short Course Quality Committee to amend the entry requirement for the Faculty of Medicine's Revolutions in Biomedicine Summer School with effect from June 2015, as outlined in section 2.2 of the Senate's paper.

(3) QAA Consultations

Noted: That the Quality Assurance and Enhancement Committee had submitted responses on behalf of the College to the following QAA consultations:

- (a) Qualifications Awarded by Two or More Degree Awarding Bodies
- (b) Master's Degree Characteristics
- (c) Doctoral Degree Characteristics
- (d) Assuring Quality for International Students Studying in the UK: A Guide for UK Higher Education Providers

(4) HEFCE Consultations

Noted: (i) That the Quality Assurance and Enhancement Committee had submitted a response on behalf of the College to the HEFCE Consultation on the Future of Quality Assessment Arrangements.

(ii) That the second stage of the HEFCE review would address detailed options, design and implementation issues, and that it would then be for each funding body to decide how to proceed once the discussion and consultations had been completed. As reported above [Minute 1970 (5)], the College had volunteered to pilot any new arrangements in 2016/17.

(iii) That the Quality Assurance and Enhancement Committee had noted that HEFCE had commissioned a study by KPMG into the costs of existing quality assurance and assessment practices to better understand these costs and to inform the review of future approaches to quality assessment in higher education.

(iv) That the Quality Assurance and Enhancement Committee had submitted a response on behalf of the College to the HEA review of external examining arrangements in the UK which had been commissioned by HEFCE.

(5) Surveys

Noted: (i) That the Quality Assurance and Enhancement Committee had considered the results from the Autumn term 2014 UG and PG SOLE surveys and had been advised that the results were consistent with Autumn 2013 and that Faculty representatives would be investigating instances where a drop in satisfaction had occurred.

(ii) That the Quality Assurance and Enhancement Committee had been advised that the SOLE lecturer/modules questions would remain the same for 2015-6 so that trend data for 3 years could be compiled.

(iii) That the Quality Assurance and Enhancement Committee had been advised that the Postgraduate Research Experience Survey (PRES) 2015 had been run from 2 March until 14 May 2015. The Committee had been advised that the survey results and action plans would be considered via the appropriate committees in due course and that national benchmarking results would be received from the HEA in the summer.

(6) Academic Standards Framework working groups

Noted: (i) That the Quality Assurance and Enhancement Committee had been advised that two Working Groups, each chaired by a College Consul, were being set up (and as reported above in Minute 1970 (6)) to look into and advise on the following areas highlighted in the initial consultation:

- Complaints and Appeals (to be Chaired by Professor Andrew Parry)
- Academic Integrity [to include Assessment Practices and Plagiarism] (to be Chaired by Professor Richard Thompson)

(ii) That the groups would include student representatives and would report to the Steering Group established to oversee the work on the Academic Standards Framework and the preparations for the Higher Education Review (SM 1952 of 25 February 2015 refers).

1975 Postgraduate Quality Committees

Considered: A Report by the Postgraduate Quality Committees (**Paper Senate/2014/61**).

(1) New Programme Proposals

(1.1) MRes in Nuclear Energy (Department of Materials)

Reported: (i) That the Master's Quality Committee (Business, Engineering & Physical Science) had considered and approved a proposal from the Department of Materials for the establishment of a new MRes in Nuclear Energy with effect from October 2015, as outlined in section 1.1 of the Senate's paper.

(ii) That the programme would be offered on a full-time only basis over one calendar year and would form part of an integrated MRes/PhD 1+3 programme in the Imperial, Cambridge Open University (ICO) Centre for Doctoral Training (CDT) in Nuclear Energy.

(iii) That a significant number of applicants to the CDT programme already held an MSc degree, and so the availability of an MRes would make the CDT more attractive to these students.

(iv) That there would be no new taught content to the programme as it drew heavily on the existing MSc in Nuclear Engineering.

(v) That the programme had been through the normal approval process which had included external review.

(vi) That the programme specification for the proposed MRes in Nuclear Energy was provided in Appendix I of the Senate's paper.

Approved: On the recommendation of the Committee, the introduction of the **MRes in Nuclear Energy** with effect from October 2015.

(1.2) Postgraduate Certificate, Postgraduate Diploma and MSc in Surgical Innovation (Department of Surgery and Cancer)

Reported: (i) That the Master's Quality Committee (Medicine, Life Sciences & School of Professional Development) had considered and approved a proposal from the Department of Surgery and Cancer for the establishment of a new MSc in Surgical Innovation, with effect from October 2015, as outlined in section 1.2 of the Senate's paper.

(ii) That the programme would include a Postgraduate Certificate and a Postgraduate

Diploma and some modules would also be offered as standalone modules (both with and without assessment) via the continuing professional development route.

(iii) That the aim of the programme was to provide a solid academic foundation in both clinical and non-clinical topics relevant to modern surgical trainees, as well as other members of the multidisciplinary team and those interested in surgery as a field of study, with particular emphasis on how surgery has radically changed and will continue to advance in the 21st century.

(iv) That the programme was expected to attract surgical trainees as well as other members of the multi-disciplinary team, such as Clinical Nurse Specialists or other allied health professionals for whom a Master's qualification was a requirement for progression.

(v) That the programmes would be offered on a part-time only basis. The Postgraduate Certificate would be offered on a part-time only basis over 8 months (October to May). The Postgraduate Diploma would be offered on a part-time only basis over 16 months (PG Certificate stage plus June to January). The MSc would be offered on a part-time only basis over 24 months (two calendar years). The programmes would be based at the St Mary's, Hammersmith, Charing Cross and Chelsea and Westminster Campuses, dependant on the options chosen by each student.

(vi) That all students would register for the Postgraduate Certificate in the first instance and would be able to transfer to the Postgraduate Diploma or the MSc programme in accordance with College and programme regulations. The Postgraduate Certificate and Postgraduate Diploma would also be available as exit qualifications for students who had not successfully completed either the Postgraduate Diploma or the MSc but who had met the requirements for the lower award.

(vii) That the programme had been through the normal approval process which had included external review.

(viii) That the programme specification for the proposed Postgraduate Certificate, Postgraduate Diploma and MSc in Surgical Innovation was provided in Appendix II of the Senate's paper.

Approved: On the recommendation of the Committee, the introduction of the **Postgraduate Certificate, Postgraduate Diploma and MSc in Surgical Innovation** with effect from October 2015.

Post Meeting Note:

(i) Subsequent to the meeting it was clarified that, as the Surgical Innovation programme offered five different speciality streams at Postgraduate Diploma and MSc level, that it had been intended that students should be awarded with the Postgraduate Diploma or MSc in Surgical Innovation in the name of specialism followed.

(ii) The specialisms offered would be as follows: Bariatric Medicine and Surgery; Colorectal Surgery; Oesophagogastric Surgery; Orthopaedic Surgery; Vascular Surgery

(iii) Chair's action was taken on behalf of the Senate to approve the award titles as follows: **Postgraduate Certificate in Surgical Innovation; PG Diploma in Surgical Innovation (specialism); MSc in Surgical Innovation (specialism).**

(2) Major Programme Modifications

(2.1) Global MBA (Imperial College Business School)

Considered and approved: On the recommendation of the Master's Quality Committee (Business, Engineering & Physical Sciences), the change of programme name to the

Global Online MBA, with effect from entry in October 2015, as outlined in section 2.1 of the Senate's paper.

Noted: (i) That the Master's Quality Committee had received reassurances from the Imperial College Business School that there were no applicants holding offers who would need to be consulted on the change of programme name.

(ii) That the award title of Master of Business Administration would remain unchanged.

(2.2) MBA Suite of Programmes (Imperial College Business School)

Considered and approved: On the recommendation of the Master's Quality Committee (Business, Engineering & Physical Sciences), to include membership of the **Association of Chartered Certified Accountants** (ACCA) as an acceptable entry qualification for applicants who do not otherwise meet the current academic entry requirements of the programme, with effect from entry in October 2015, as outlined in section 2.2 of the Senate's paper.

(2.3) MSc in Applied Mathematics (Department of Mathematics)

Considered and approved: On the recommendation of the Master's Quality Committee (Business, Engineering & Physical Sciences), to remove the August entry point to the programme with effect from August 2016, as outlined in section 2.3 of the Senate's paper.

(2.4) MSc in Applied Mathematics (Department of Mathematics)

Considered and approved: On the recommendation of the Master's Quality Committee (Business, Engineering & Physical Sciences), to restructure the programme with effect from entry in August 2015, as outlined in section 2.4 and appendix III of the Senate's paper.

Noted: That the Master's Quality Committee had received reassurances from the Department of Mathematics that there were no applicants holding offers who would need to be consulted on the changes to the programme.

(2.5) MRes in Mathematical Science (Department of Mathematics)

Considered and approved: On the recommendation of the Master's Quality Committee (Business, Engineering & Physical Sciences), to withdraw the 'scientific computation' and 'Statistics: Advanced Pattern Detection and Signal Analysis' streams with effect from entry in October 2015, as outlined in section 2.5 of the Senate's paper.

Noted: That the Master's Quality Committee had received reassurances from the Department of Mathematics that there were no applicants holding offers who would need to be consulted on the changes to the programme.

(2.6) MRes in Mathematical Science (Department of Mathematics)

Considered and approved: On the recommendation of the Master's Quality Committee (Business, Engineering & Physical Sciences), the change of programme name to the **MRes in Stochastic Analysis**, with effect from entry in October 2015, as outlined in section 2.6 of the Senate's paper.

Noted: That the Master's Quality Committee had received reassurances from the Department of Mathematics that there were no applicants holding offers who would need to be consulted on the changes to the programme.

(2.7) MSc in Nuclear Engineering (Department of Materials)

Considered and approved: On the recommendation of the Master's Quality Committee (Business, Engineering & Physical Sciences), the change of programme name to the **MSc in Advanced Nuclear Engineering**, with effect from entry in October 2015, as outlined in section 2.7 of the Senate's paper.

Noted: That the Master's Quality Committee had received reassurances from the Department of Materials that there were no applicants holding offers who would need to be consulted on the change of name.

(2.8) MRes in Biomedical Research (Department of Surgery and Cancer)

Considered and approved: On the recommendation of the Master's Quality Committee (Medicine, Life Sciences and School of Professional Development), the introduction of a new stream in data science within the MRes in Biomedical Research, with the new award title of **MRes in Biomedical Research - Data Science** for students taking this stream, with effect from October 2015, as outlined in section 2.8 of the Senate's paper.

Noted: That the Master's Quality Committee had received reassurances from the Director of the Data Science Institute that there was no perceived conflict of interest in the use of "data science" in the programme title.

(2.9) MSc and Postgraduate Certificate in Advanced Therapeutic Strategies (NHLI)

Considered and approved: On the recommendation of the Master's Quality Committee (Medicine, Life Sciences and School of Professional Development), the change of programme name to the **MSc and Postgraduate Certificate in Genes, Drugs and Stem Cells – Novel Therapies**, with effect from entry in October 2015, as outlined in section 2.9 of the Senate's paper.

Noted: That the Master's Quality Committee had received reassurances from the NHLI that there were no applicants holding offers who would need to be consulted on the change of name.

(2.10) MSc in Immunology (Department of Medicine)

Considered and approved: On the recommendation of the Master's Quality Committee (Medicine, Life Sciences and School of Professional Development), to restructure the programme with effect from entry in October 2015, as outlined in section 2.10 and Appendix IV of the Senate's paper.

Noted: (i) That the Master's Quality Committee had asked the Programme Team to make additional modifications and that revised programme documentation had subsequently been submitted and reviewed by the Chair of the Committee who had confirmed that all of Committee's requirements had been satisfactorily addressed.

(ii) That the Master's Quality Committee had received reassurances from the Department of Medicine that students currently enrolled on the programme would be supported to completion under the existing programme arrangements, and that all students holding offers would be advised in writing of the changes to the programme.

(3) Programme Suspensions

Considered and approved: On the recommendation of the Master's Quality Committee (Medicine, Life Sciences and Professional Development), the suspension for one academic year of the MSc in Bioinformatics and Theoretical Systems Biology [1+3 programme] (Department of Life Sciences), from entry in October 2015, as outlined in section 3.1 of the Senate's paper.

Noted: That the Master's Quality Committee had received reassurances from the Department of Life Sciences that students currently enrolled on the programme would be supported to completion and that there were no applicants currently holding offers.

(4) MA/MSc in Innovation Design Engineering (IDE) & MA/MSc in Global Innovation Design (GID)

Noted: (i) That the Master's Quality Committee (Business, Engineering & Physical Sciences) had been advised that the Memoranda of Agreement for the MA/MSc in Innovation Design Engineering and the MA/MSc in Global Innovation Design were currently being updated to include new timings, termination and competition clauses as well as other minor changes.

(ii) That the revised agreement for the IDE had been signed on 5 February 2015 and that the revised agreement for the GID was expected to be signed shortly.

(5) Appointment of External Examiners for 2014-2015

Reported: That the Master's Quality Committees had approved nominations for Board Chairs and External Examiners for the 2014-15 academic session.

1976 Report by the Engineering Studies Committee

Considered: A Report by the Engineering Studies Committee (**Paper Senate/2014/62**).

(1) MEng in Aeronautics with Spacecraft Engineering (Department of Aeronautics)

Reported: (i) That the Engineering Studies Committee had considered and approved a proposal from the Department of Aeronautics for the establishment of a new MEng in Aeronautics with Spacecraft Engineering with effect from October 2016, as outlined in section 1 of the Senate's paper.

(ii) That the programme would share the structure and most of the curriculum of the existing MEng in Aeronautical Engineering programme while providing a specific focus on space disciplines.

(iii) That the programme had been through the normal approval process.

(iv) That the programme specification for the proposed MEng in Aeronautics with Spacecraft Engineering was provided in appendix I of the Senate's paper.

Approved: On the recommendation of the Committee, and in accordance with paragraph 1.3 of the Regulations for the award of the BEng and MEng degrees, the additional field of study for MEng with **Aeronautics with Spacecraft Engineering** with effect from October 2015.

(2) MEng in Bioengineering (Department of Bioengineering)

Considered and approved: On the recommendation of the Engineering Studies Committee, the introduction of a new 'general' stream within the MEng in Biomedical Engineering with effect from October 2016, as outlined in section 2 of the Senate's paper.

Noted: That no new award title had been proposed and that all MEng students would receive the award of MEng in Biomedical Engineering irrespective of the stream they had completed.

(3) BEng in Biomedical Engineering (Department of Bioengineering)

Considered and approved: On the recommendation of the Engineering Studies

Committee, the permanent withdrawal of the BEng in Biomedical Engineering with effect from entry in October 2016, as outlined in section 3 of the Senate's paper.

Reported: That all students currently enrolled on the programme would be supported to completion and that there were no applicants currently holding offers.

(4) Department of Earth Science and Engineering

Reported: That the Engineering Studies Committee had approved the renewal of the exchange agreement with the School of Engineering Geophysics, University of Strasbourg, France.

(5) Annual Monitoring statements

Reported: (i) That the Engineering Studies Committee had considered the Annual Monitoring statements from the Centre for Co-Curricular Studies and from the Department of Chemical Engineering.

(ii) That the Departmental representatives had summarised the key points from the reports and that the Committee had looked in particular at the comments of external examiners and at the responses of the Department to issues raised by them.

(iii) That the Committee had noted the response from the Department of Chemical Engineering to the National Student Survey.

(6) Engineering Subject Benchmark Statement

Reported: That the Engineering Studies Committee had noted the publication of the Engineering Subject Benchmark Statement by the QAA in February 2015.

(7) Survey Results

Reported: That the Engineering Studies Committee had noted the survey results for Undergraduate SOLE autumn 2014.

(8) Publication of UK frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies

Reported: That the Engineering Studies Committee had noted that the Quality Assurance Agency QAA had now published an updated and revised version of the UK frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies.

1977 Report by the Science Studies Committee

Considered: A Report by the Science Studies Committee (**Paper Senate/2014/63**).

(1) Department of Life Sciences

Reported: (i) That the Science Studies Committee had approved a proposal to establish new student exchange links with the Department of Biology, University of Copenhagen in Denmark.

(ii) That the Science Studies Committee had approved a proposal to establish new student exchange links with the Department of Molecular Biology, University of Vienna in Austria.

(2) Annual Monitoring statements

Reported: That the Science Studies Committee had considered the Annual Monitoring

statements from the Centre for Co-Curricular Studies.

(3) Publication of UK frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies

Reported: That the Science Studies Committee had noted that the Quality Assurance Agency QAA had now published an updated and revised version of the UK frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies.

(4) Survey Results

Reported: That the Science Studies Committee had noted the survey results for Undergraduate SOLE autumn 2014.

1978 Prizes and Medals Established/Amended

Considered: Recommendations concerning new prizes and amendments to awards as outlined in **Paper Senate/2014/64**.

Approved: (i) The establishment of three new prizes as outlined in sections A-C of the Senate's paper.

(ii) The amendment to the A. G. Charleton Prize as outlined in section D of the Senate's paper.

1979 Report on Undergraduate Admissions

Received: A Report from the Academic Registrar (**Paper Senate/2014/65**).

1980 Staff Matters

Received: A Note by the Provost (**Paper Senate/2014/66**).

1981 Appointment of External Examiners in 2014-2015

Received: The names and affiliations of External Examiners for undergraduate and Master's degrees appointed to act at 2014-15 examinations since the last Senate meeting **Paper Senate/2014/67**).

1982 Award of Degrees and Diplomas

Reported: That under the provisions of University of London Ordinance 9(2) and Imperial College London Ordinance B1(1), and with the terms of SM 8 of October 1998, that the Academic Registrar had acted on behalf of the Senate in approving the awards for candidates who had satisfied the examiners in the examination and satisfied all other necessary requirements for the award of the degrees, and that degrees had been conferred on these candidates, the date being as indicated on the award.

1983 Dates of Senate Meetings in 2015-16

Reported: The following dates of meetings of the Senate in 2015-16:

Wednesday, 21 October 2015 – Room G01, Royal School of Mines
Wednesday, 9 December 2015 – Room G01, Royal School of Mines
Wednesday, 17 February 2016 – Council Room, 170 Queen's Gate
Wednesday, 11 May 2016 – Council Room, 170 Queen's Gate
Wednesday, 22 June 2016 – Council Room, 170 Queen's Gate
All meetings will start at 3.00pm.

1984 Any Other Business

The Provost invited members to suggest topics for discussion at forthcoming meetings of the Senate.

1985 Date of Next Meeting

Reported: The next meeting of the Senate would take place on Wednesday 24 June 2015, in the Council Room, 170 Queen's Gate, starting at 3.00pm.