

# **College of Science**

## **Undergraduate Awards**

### **AGILENT TECHNOLOGY PROJECT PRIZE**

A perpetual prize for the best project in the Fourth Year B.Sc.(Hons.) Physics & Astronomy programme is being donated by Agilent Technologies Ltd. The value of the prize is €400 annually.

### **PRIZES AWARDED BY ALLTECH BIOTECHNOLOGY INC.**

Each Prize is valued at €1270.

The Prizes will be awarded annually to two Third Year Biotechnology students based on the combined scores achieved in the First and Second University Examinations in Science (Biotechnology) and an interview with a member of the College of Science and an Alltech representative. The students will also avail of a 4-month placement in the corporate headquarters of Alltech Research International in Lexington Kentucky, USA, after their Third Year examinations.

### **DR. RICHARD JOHN ANDERSON BOOK PRIZE IN BIOLOGY**

The Prize was founded under the Trusts of the Will of the late Dr. Hannah Perry Anderson in memory of her husband, Professor R. J. Anderson, Professor of Natural History in this University (1883-1914). The value of the Prize, originally the interest on €127, being the amount of legacy bequeathed, is now €125. In accordance with the Terms of the Will, the interest is to form a Book Prize in Biology to be called the Richard John Anderson Book Prize.

The Prize shall be awarded to the second year student who, in the opinion of the Professor, has the highest qualifications in Biology.

### **THE BLAYNEY EXHIBITION**

*(Founded by the late Lord Blayney)*

An Examination for one Exhibition, originally established under the Blayney Bequest and now valued at €1,000, is held in the month of June in each year, on the following conditions:

1. The Exhibition is awarded in alternate years for proficiency (1) in Greek, Latin, and one other language set forth in 4; and (2) in any two subjects for the B.Sc. Degree set forth in 4; the standard required is that of the Pass Degree.

2. Should no candidate present himself or should insufficient merit be shown, the Exhibition may be held over for one year and offered again in the following year in the same course of study.

3. The Examination will be held in June. Candidates must enter their names with the Dept. on or before 31st March.

4. The Courses for the Academic Year 2008-09, 2010-11, etc., will be the B.A. Courses in the following subjects for the Session:—

(1) Greek; (2) Latin; (3) French; (4) German; (5) Irish; (6) Italian; (7) English; (8) Spanish.

The Courses for the Academic Year 2007-08, 2009-10, etc., will be the B.Sc. Pass Courses in any two of the following subjects for the Session:—

(1) Mathematics; (2) Mathematical Physics; (3) Experimental Physics; (4) Chemistry; (5) Zoology; (6) Botany and Plant Physiology; (7) Geology and Mineralogy; (8) Anatomy and Anthropology; (9) Physiology; (10) Pathology and Bacteriology; (11) Biochemistry.

(The maximum number of marks obtainable is the same in each subject.)

5. No student of Medicine may take Anatomy and Physiology for the Examination if more than three years have elapsed from the date of his registration

as a student of Medicine. No other student may enter for the Examination if more than three years have elapsed from the date of his Matriculation.

6. No candidate will be admitted to the examination for the Exhibition who has not attended Honours Classes of the First and Second Years in the subjects in which he intends to compete.

7. Údarás na hOllscoile retains the power of withholding, or of awarding only a portion of, the Exhibition.

8. The Blayney Exhibition may be held along with any Scholarship.

9. The Exhibition will be paid in July.

### **BOOK PRIZE IN CHEMISTRY**

The value of the Prize, originally the interest on €64, donated to Chemistry by Dr. Thomas Dillon, former Professor of Chemistry, is now €125.

The interest will form a Book Prize to be awarded to the student who obtains the highest marks at the Second Year Science Examination in Chemistry.

### **DELTA INDEX PRIZE FOR ECONOMICS WITHIN FINANCIAL MATHEMATICS & ECONOMICS**

Delta Index, an Irish financial services company, has agreed to make a prize available for this programme. The prize, valued at €500, will be awarded annually on the recommendation of the Head of Economics.

It will be given to the student in the fourth year of the B.Sc. in Financial Mathematics and Economics with the highest aggregate mark in the three modules EC410 (Seminar in Economics of Financial Markets I), EC411 (Seminar in Economics of Financial Markets II), and EC420 (International Monetary Economics) provided an overall result of second class honours, Grade 1 has been achieved.

### **THE SIR JOSEPH LARMOR PRIZE**

The Prize was founded, under the Trusts of the Will of the late Sir Joseph Larmor, F.R.S., former Professor of Natural Philosophy at Queen's College, Galway, in remembrance of his Professorship in that College.

The Prize will be awarded in the National University of Ireland, Galway, each year on the results of the B.A. or B.Sc. (Hons) Examination in ONE of the following degree subjects, Mathematics, Mathematical Physics, Experimental Physics or degree subjects in Physics in which Experimental Physics is a major component.

The successful candidate must take out a course leading to the M.A., M.Sc., or Ph.D., degree, or other approved course of study, in one of the subjects of the Degree Examination of which he/she has been awarded the Prize. The course may be taken out either in National University of Ireland, Galway, or in a University approved by the Professor of the subject.

### **ELI LILY PRIZES**

#### **(i) First Science Examination (including the First Science Examination for the denominated degree of B.Sc. in Chemistry and Applied Chemistry)**

The Prize, valued at €650, will be awarded annually to the student who obtains the highest mark in Chemistry in the First Science Examination (including the First Science Examination for the denominated degree of B.Sc. in Chemistry and Applied Chemistry) and who subsequently registers for the Second Science Course in Chemistry in the University.

## **(ii) B.Sc. in Health and Safety Systems**

In accordance with a recommendation from Mr. E. Fallon, Dept. of Industrial Engineering, the College of Science approved the introduction of an Eli Lily Prize to be awarded annually to the student who is placed first in the Final Year of the B.Sc. in Health & Safety Systems Degree programme. The value of the prize is €650.

## **Hamilton Prizes (Royal Irish Academy)**

The Royal Irish Academy/Acadamh Ríoga na hÉireann (National Committee for Mathematics) has obtained sponsorship from DePfa Bank Europe plc, a German financial institution with headquarters in the IFSC in Dublin, to provide prizes annually to students of Mathematics in each of the nine Irish Universities and to fund an annual lecture, the Hamilton Lecture, to be given by a distinguished international mathematician. The sponsorship commenced in 2002 and is to be provided for the next five years. The student prize will be called the Hamilton Prize in Mathematics and is worth €1,000 to each student. It is hoped that both of these initiatives will form part of a new range of activities to celebrate Hamilton's life and contribution to Mathematics and will as far as possible be scheduled on or around October 16<sup>th</sup>, the day Hamilton scratched his fundamental formula for quaternion multiplication on Broome Bridge in Dublin.

Nine prizes will be awarded each year. Each University Mathematics School will be invited to nominate its "best" student in the penultimate year of undergraduate mathematical studies. It is not envisaged that the prize within each University be restricted to "single honours" students of Mathematics, or indeed that any special competition be devised. The selection of the best student will normally be based either on the results of the annual assessment of the year's performance or on the best performance in the ordinary University examinations in Mathematics at the end of the penultimate year. However, it is left to the discretion of School of Mathematics in each of the Universities to decide on the most appropriate method of selecting which student should be awarded the prize in each case.

It is envisaged that each School will publicise the award, and announce the criteria used to determine the prize-winner within each University. The Academy wishes to receive from each Head of School the name of one, and only one, prizewinning student by the end of June each year, on completion of the student's penultimate year of study of Mathematics. The Academy intends to hold a prize-giving ceremony in Academy House on or near October 16<sup>th</sup> in each year, the anniversary of Hamilton's famous walk. It is expected that all nine prize-winners, who should then be in their final year of study, will attend this ceremony.

### **Hamilton Lecture**

The Academy is in a position, thanks to the sponsorship of DePfa Bank, to fund the visit of an eminent mathematician from abroad to participate in the day's activities. This person, possibly a Fields Medallist or a mathematician of similar stature, will deliver a public lecture at a venue in central Dublin. He/she will also present the Hamilton Prizes to the students. It may also be possible to have the visitor deliver a seminar in Academy House, to an invited audience of professional mathematicians, around the same time. Further details will be advised when available.

### **HEWLETT-PACKARD AWARD**

The Hewlett-Packard Award is presented to the best final-year undergraduate student whose project in Engineering, Science or Information Technology best displays innovation, originality, commercial relevance and excellence. A cash prize of €2540

will be presented to the winning student in October. In addition a matching sum in the form of HP equipment will be presented to the student's University.

#### **IVAN HEFFERNAN MEMORIAL MEDAL IN MARINE SCIENCE**

The medal is awarded annually on the results of the Honours Denominated B.Sc. Degree Examination in Marine Science. It is funded jointly by the Marine Programs Section, The University of Georgia (USA) and The Martin Ryan Marine Science Institute, National University of Ireland, Galway.

The value of the prize is €300.

#### **ISOTRON WESTPORT PRIZE IN EXPERIMENTAL PHYSICS**

The Prize donated by Isotron Westport Ltd. will be awarded to the student whose experimental practical work for the B.Sc. Honours Degree Examination in Experimental Physics is deemed best in her/his class, provided the practical work is deemed to be of a sufficient standard and provided that a high honours standard is reached in the examination overall. The Prize is valued at €250.

#### **THE WILLIAM KING MEDAL**

This medal is named after Prof. Williams King, the first Professor of Geology at Galway. He was one of the founders of modern palaeontology. The medal may be awarded to a student(s) who demonstrates outstanding performance in their final year B.Sc. honours in Earth & Ocean Sciences. Such performance will include first class standard in written and practical exams, first class standard in field project work and largely first class in semester projects. At present the medal will be accompanied by an award of €300.

#### **MERIT MEDICAL PRIZE**

In accordance with a recommendation from Dr. E. Fallon, the College of Science approved the introduction of a Merit Medical Prize for the best final year project in the B.Sc. in Health & Safety Systems. This annual prize (subject to review at the end of five years) will be to the value of €500.

#### **NORTEL (IRELAND) LTD. PRIZES IN APPLIED PHYSICS AND ELECTRONICS and INDUSTRIAL ENGINEERING AND INFORMATION SYSTEMS**

One Prize is awarded in Applied Physics and Electronics and one in Industrial Engineering and Information Systems.

(i) **Applied Physics and Electronics**

The value of the prize is €400.

The Prize in Applied Physics/Electronics will be awarded to the student whose experimental practical work for the B.Sc. Honours Degree Examination in Applied Physics/Electronics is adjudged the best, provided the project is deemed to be of sufficient standard and also provided that a high honours standard is reached in the Examination overall. In addition, to the experimental work, a written report and verbal presentation will be required.

(ii) **Industrial Engineering and Information Systems**

The value of the prize fund is €635 per annum

The prize fund will be shared equally among those students whose final year projects in the B.E. Degree Examination in Industrial Engineering and Information Systems is adjudged the best provided that any student awarded a portion of the prize fund reaches a satisfactory standard in the Examination overall.

#### **THE REAGECON CHEMISTRY PRIZE**

The Reagecon Company, Shannon, Co. Clare will present a prize of €320 annually to the student who attains first place in the Third Year University Examination in Chemistry (core 24 ECTS Credits) or Chemistry and Applied Chemistry (core 36 ECTS Credits) and who continues to study Chemistry or Chemistry and Applied Chemistry in fourth year of the Honours B.Sc. course.

#### **CHARLES RIVER LABORATORIES PHARMACOLOGY PRIZES**

Prizes, valued in total at €2,000, will be awarded annually to the top three students in the 2<sup>nd</sup> Year and also in the 3<sup>rd</sup> Year of the undergraduate Pharmacology programme. In addition, prizes will be awarded for best final year laboratory project in the Undenominated Science and also in the Biomedical Science cohorts.

### **Postgraduate Award**

#### **DR. PADDY MORIARTY FUND**

The ESB have agreed to fund the establishment of the Dr. Paddy Moriarty Fund in memory of the former Chief Executive and Cathaoirleach of the ESB. The Fund will support three postgraduate fellowships, with a preference for Ph.D. programmes, although Masters Degree support would not be ruled out, to be known as the Paddy Moriarty Fellowships, in the amount of €20,000 per annum for the next ten years. The Fellowships will be tenable in Engineering, Quality, Innovation, Labour Economics/Labour Law/Industrial Relations, or Irish Studies (including Gaeilge), preference to be given in the first year to a Ph.D. student in Electrical Engineering. One new award will be made each year and, in steady state, three such fellowships will be supported at any given time. In addition, support from the Fund will be given to Irish arts activities in the University, in the amount of €12,000 per annum.