



REGGIE



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THE NEWSLETTER OF THE
KING'S COLLEGE LONDON ENGINEERS' ASSOCIATION

MARCH 1994

1ST PRIZE MECHATRONICS PROJECT BRINGS GO-CART FUN TO DISABLED CHILDREN

A third-year Individual Project carried out within the Department of Mechanical Engineering has enabled us to design a go-cart which can be driven by disabled children

The Oasis Trust is a charity in South London which provides facilities, including a go-cart track, for local children, many from a deprived background. Unfortunately disabled children could only use this as passengers in a two-seater cart. Oasis asked us if we could design a cart which could be driven solo by severely disabled children using only one finger, so that they could enjoy the facilities like everybody else. Fortunately the problem was ideal as a Mechatronics project, since this subject integrates the use of computers and electronics for controlling mechanical systems. The task was undertaken by Jason Tisdall as his third-year project under the supervision of Dr Graham Paul.

The problems which had to be solved were that the children would not be able to operate the normal steering, accelerator and brake mechanisms; the safety of the driver was of extreme importance; and the children would need special support to hold them upright in the cart.

The final design chosen was to use a

series of electric servo motors which were each connected via gearboxes to a potentiometer feedback system connected to a joystick similar to that used in a

**by Norman Borrett
Centre for
Mechatronics &
Manufacturing
Systems
Engineering**

light aircraft. The joystick is adjustable to allow children of different ages and disabilities to operate it. One motor applied torque to replace the steering mechanism while the accelerator and brakes were controlled by cables passing round drums which were controlled by other motors. A fail-safe system was used so that the brakes came on and the engine cut out if the child let go of the joystick or there was a power failure. Finally, a full harness system was fitted to restrain the children and position them correctly in the seat.

The final design was tested by disabled children who found that it met all of their requirements. We are hoping to

develop the system for use in cars for the disabled and this would, once again, be based upon student project work.

Jason entered the project for the Institution of Mechanical Engineers' Queen's Silver Jubilee Prize Competition and was awarded First Prize in the National Finals.

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Editorial

Welcome to the second issue of 'HRH Reggie' (and yah boo sucks to those of you who thought it wouldn't carry on!). As you will see, we've not only managed to produce this issue, on time, but we've also doubled in size, to eight pages! My thanks go to all those who managed to find time to write contributions, and I apologise for having had to edit a few of them.

Sadly, due to a last minute rush (so what's new?) and a slow postal system between Germany and the UK, a few letters in response to the first issue have not made it into this one. Rest assured that these will be published in the September issue.

More astute readers will notice that, unfortunately, we already have a change of editor, due to the relocation of Graeme Ware to Germany. Our grateful thanks go to Graeme for his efforts in the past, and best wishes in his new job.

Many of you will remember former incarnations of this publication, produced by the late Rod McMillan, whose obituary appears elsewhere, and I would like to dedicate this issue to the memory of Rod, whose unfailing support for the Association has been an inspiration to us all.

So what of the future? In the September issue we hope to bring you news of recent developments within both the College and the Faculty (yes, it's still a Faculty to us, whatever the College wish to call it) as well as articles about the current work of the Faculty and news and letters from Members.

In the meantime I hope you enjoy this issue, and I wish you all a happy and prosperous summer.

Al Steger-Lewis
pp. H.R.H. Reggie

KCLEA Directory & Prize Draw

The Committee is acutely aware that the biannual Directory of Members has not been published since 1988, so strenuous correctional efforts are now being made.

The first step is to update our database to ensure that the published information is as accurate as possible. You will find, with this newsletter, a printout of your entry in the database, with space to make corrections where necessary. Please take the time to check this infor-

mation and return the printout **whether or not you have made any changes**. This will help us greatly to ensure that our records are correct.

All members who return their printout will be entered into a free prize draw with some fabulous prizes being awarded to the first five entries drawn out of a (very large) beer mug. The winners will be announced in the September issue.

KCLEA Annual Dinner 1993

The KCLEA Annual Dinner 1993, aka HRH Reggie's Ball, was scheduled for Friday 29th October 1993 in the Great Hall at King's.

A sumptuous 4 course meal, dance band, disco and late bar had all been arranged to ensure that the evening would evoke memories of some of the great 'Balls' of the past.

Nearly nine hundred invitations had been distributed, in the hope that we might attract about 100 diners, and confidence was high. However, the ticket applications did not roll in as expected, and with only a week to go before the event only 38 tickets had been sold.

At this point a decision had to be made: should we go ahead anyway and swallow the loss, or should we cancel and face the potentially disastrous consequences (as well as the loss of cancellation fees)? In the end it was decided that a dinner for 38 people in the Great Hall would be a complete joke; the hall would be so empty that it would echo.

The dinner was cancelled. The post mortem and recriminations began. The Social Secretary resigned. Why had it all gone wrong? Why didn't people want to attend?

Well, everyone had an opinion. It was too short notice; it was too expensive; it was the wrong time of year; it was the wrong day of the week; no one is interested in 'balls' any more; the invitations didn't get to their destinations.

Once everyone had covered their backs, made sure they could not be blamed, we started to look at the ramifications. Should we try again next year? Should we try a different time of year? Should we try a different kind of event? There are many questions, most of them quite obvious to you, dear reader.

No decisions have yet been made, arguments still rage. What is really required is opinion from the masses, and masses of it. Perhaps, after all, King's Engineers no longer want to get together socially, perhaps they have too many other commitments in their lives. Doubtless the committee will decide what to do next, and it may or may not be what you want. I for one think that you, dear reader, should help us to decide. Give us your thoughts, tell us what you want us to do. Don't just sit back and let another year go by unnoticed.

Send your comments and ideas to The Honorary Editor, HRH Reggie, c/o 429 Clarence Lane, Roehampton, London SW15 5QD.



Your Committee

In each issue we will profile a selection of members of the KCLEA Committee, so you know who to blame, who to contact and you can get to know your elected representatives!

Keith Newton (1955-58) (President)

Keith read Civil Engineering at King's. He currently lives in Kew but has also lived in Ghana, Kuwait, Saudi Arabia and Scotland. His career has concentrated on airport planning and design with BAA, the governments of Kuwait and Saudi Arabia and Sir William Halcrow & Partners. Keith has served on the KCLEA committee for several years since leaving King's and was a member of the Victoria Street Mob when it won the 13 Club Trophy in 1963. His aims are: to bring about a closer relationship between King's, KCLES, KCLA and KCLEA; to increase the activities of KCLEA, involve more members, and offer better value for money to the members; to see the publication of the Directory of Members in 1994. Keith says his disappointments are the demise of Civil Engineering at King's, the loss of the Faculty's independent status within College and the present lack of contact between KCLES and KCLEA.

Liz Beckmann (1971-74) (Past President)

Liz Beckmann is the immediate past president of KCLEA. Since graduating in Electrical and Electronic Engineering from King's in 1974, she has mainly worked in the high tech medical imaging field. Liz began her career with EMI Medical and she has worked for GE (USA) and Picker (GEC) in senior positions. In 1986 she was appointed Managing Director of Elscint (GB) Ltd, a subsidiary of a major international imaging company. She has now set up an independent company distributing systems to hospitals. Her involvement

in the radiology world was acknowledged this year when she was appointed President of the British Institute of Radiology, an eminent multidisciplinary institute which is the oldest radiology society in the world. Liz has a very broad range of interests including travel and the theatre and gets involved helping with a number of amateur dramatic societies. Liz also lectures to schools on Engineering and management related topics.

Colin Wilson (1954-57) (Vice President)

Colin Wilson was at King's from 1954 to 1957 when he graduated in Civil Engineering and got his AKC Diploma. He was employed by Rendel, Palmer and Tritton from graduation until 1969 mostly on road projects and then joined the Hertfordshire County Council from which he retired in May 1993 as Divisional Highway Manager. His leisure interests include gardening and aircraft, especially Air Traffic Control. Colin has been on the KCLEA Committee for eleven years and was President from 1986 to 1988. He was awarded the 13 Club Trophy in 1991 and is currently a Vice President.

Norman Borrett (1965-1971) (Committee Member)

Norman was a Mechanical Engineering student at King's from 1965 to 1971. Between 1968 and 1971 he studied for an MSc in Powder Technology and carried out a PhD under professor H.E. Rose. He joined Wilkinson Sword in 1971 as a Process Development Engineer and in 1973 joined Ready Mixed Concrete Ltd in their Technical Services Division. Prior to joining the staff at King's he worked for six months as a technical sales engineer in order to gain experience in the commercial field. Although initially involved in the field of Powder Technology at King's he has over the past ten years concentrated on industrial management subjects and

Committee Members

President:	Keith Newton
Honorary Secretary:	Sue Doran
Honorary Treasurer:	Bev Steger-Lewis
Vice Presidents:	Ray Horner Al Steger-Lewis Bob Hawken Colin Wilson Charles Turner Stanley Earles
Past Presidents:	Liz Beckmann Ron Marsh
Memb'ship Secretary:	Peter Weitzel
Committee Members:	John Harris Roddy Haswell Julian Bean Lara Brookes Norman Borrett
Honorary Auditor:	Ian Williams
Trustees:	Philip Brierley Dennis Cooper Maurice Kenn
College Liaison:	Dr M Clode
Honorary Editor:	Tamer Emer

Meeting Dates

Committee Meetings:	14th April 17th May 6th July 21st September 1st November
3rd Yr Cheese & Wine:	15th March (lunchtime)
AGM:	2nd December

now teaches these to engineering students from both King's and University College. On the retirement of Anthony Smith in 1989, he became Sub-Dean of Engineering and Admissions Tutor in Mechanical Engineering. He is now Senior Tutor in Mechanical Engineering as well as being Admissions Tutor.



WELCOME BACK KCLES

Following a period of inactivity, KCLES has come back with a vengeance. Here is the first in a series of letters from the President:

Dear Member,

The new Committee of KCLES was elected a few weeks ago and consists mainly of older students.

We held our first event towards the end of February in Tutu's bar (4th & 5th floor of the Macadam Building - ed) and attracted about 100 students. Of these, about 60 joined giving a total membership of more than 85.

At the beginning of March we are taking a minibus of students to visit Soil Instruments Ltd in Ukfield. This company designs, manufactures and installs instrumentation for civil engineering concerns. If this visit is a success we will take a second party later in the term.

The chief engineer at Youngs Brewery in Wandsworth has agreed to show 20 students around the site and to provide them with free drinks (real engineering! - ed).

In addition we have arranged to visit Fullers Brewery at Chiswick, Ford Motors at Dagenham and Rover in Oxfordshire.

We have recruited a football team and will play a match against MADSOC (medics and dentists) before the end of term. There are a number of events which are still at the planning stage and for which no firm dates have been set. These include: a pool competition, a dance organised jointly with the French Society, a day trip to Calais, an "egg race" competition against the engineers at Imperial, UCL and Queen Mary's, and an expedition to a climbing wall (we have a qualified instructor on the Committee).

Watch this space!

Michael Grant, President, KCLES

KCLES TO CELEBRATE 150TH ANNIVERSARY

In 1957 KCLEA published a history of the King's College London Engineering Society, written by an Old Engineer Bill Skeat (who regrettably died just before Christmas 1993).

The history covers the first 110 years of the Society's existence, from its formation in 1847 to 1957. As the opening sentence of the Introduction to the History states, "The Engineering Society of King's College, London is without parallel in the history of societies of its kind; it can claim to be the longest established college engineering society in the world, and in 1947, the

centenary year of its existence, its honorable status and achievements received due recognition, both within the College and outside it."

In 1997 the Engineering Society celebrates its 150th anniversary.

The KCLEA Committee considers that this occasion also should not pass without due recognition. Accordingly it is inviting members to suggest ways in which the event can be celebrated. Please send your suggestions to the Hon. Secretary, Dr. Susan M. Doran, 159A Norman Road, Leytonstone, London E11 4RJ.

One aim of the Committee is to publish an addendum to the history in 1997, to cover the last 40 years. Recollections of members' time at College and of KCLES are urgently sought.

The Committee would also like volunteers to write the addendum and provide assistance in researching the material. Anyone willing to undertake these tasks is asked to contact the Hon. Secretary.

I look forward to receiving your suggestions, anecdotes and reminiscences, together with offers of help as soon as possible.

Keith Newton.



Letter from the President...

Dear Fellow Beers,

It is now just over thirty-eight years since I first thought of myself as a 'Beer', after the initiation ceremony for Freshers that had just taken place in the lecture room near Dunkley's store above the Mechanical Engineering laboratories. In the intervening years there have been many occasions when I have felt both proud and pleased to be connected with King's in general and King's Engineering in particular. Occasions arising from friendships made at College or from the good grounding in civil engineering that I received there.



I am now especially proud to have been elected President of KCLEA.

In my first year of office the main achievements have been the publication of 'HRH Reggie' in September and the wine and cheese party for third years last March.

It is hoped to make 'HRH Reggie' a twice yearly newsletter (so far so good - ed) but this will of course depend on contributions from all members. The wine and cheese party was a continuation of the attempt to improve contact with the present students but it was not as well attended as in previous years.

The annual dinner/dance in the Great Hall at King's, programmed for the end of October, was cancelled due to lack of support - 38 tickets were sold.

Although KCLEA offered to provide speakers to the Engineering Department, we were not able to do so.

Repeated attempts to make contact with the Engineering Society officers had also failed until recently, so we look to renewing a successful relationship.

The publication of the Directory was not achieved, though it is expected in late summer this year.

An attempt to have an Engineer's table at the KCLA dinner last March was partially successful and about fourteen Old Engineers and guests were seated together.

However, on the bright side your Association is financially sound and has over 700 members.

Our relationship with KCLA is good. I represent KCLEA on the KCLA Council, Al Steger-Lewis represents the younger graduates and Bob Hawken has been nominated as the Association's candidate for the Executive Committee.

Despite the poor response to attempts to activate the Association, the Committee is determined to persevere. All ideas will be considered. The priorities for the coming year are to publish two more editions of 'HRH Reggie', to publish the Directory, to increase the size of the engineer contingent at the KCLA dinner, and to update the history of the King's College Engineering Society from 1957 to the present, ready for the 150th anniversary in 1997.

I would like to emphasise, however, that the Committee cannot achieve these targets on its own. Help from the membership in the form of contributions to HRH Reggie and the history update, and suggestions for activities, for example, will be needed. I look forward to receiving your contributions.

Yours sincerely,



Keith Newton, President, KCLEA



KCLEA Annual General Meeting 1993

The 1993 AGM was held at the College on Friday 26th November. Unfortunately only about twenty members were present, somewhat fewer than in recent years. The chaos caused by power failures on the underground that week no doubt kept some members away.

Keith Newton, President, outlined the activities of the Association during the year. The new format newsletter had been well received and it is planned to publish twice a year. Although the Dinner Dance planned for October had been cancelled due to lack of support, a group of engineers had attended the KCLA dinner and it was hoped that we could increase our support for this event in 1994. Contact with current students has proved difficult since KCLES has ceased to function consistently, however a Wine and Cheese party was held to encourage final year students to join the association.

The accounts for the year ended 30th June 1993 were tabled at the meeting.

These showed that the Association continues to enjoy good financial health!

The meeting was sorry to hear that Mark Lavender had found it necessary to stand down as Honorary Treasurer during the year but the news that Bev Steger-Lewis had stepped into the breach was warmly received.

The following members of the Committee were re-elected:

President:	Keith Newton
Vice Presidents:	Ray Horner Bob Hawken Colin Wilson Al Steger-Lewis
Honorary Secretary:	Sue Doran
Membership Secretary:	Peter Weitzel
Committee Members:	Roddy Haswell John Harris Julian Bean Lara Brookes

Bev Steger-Lewis was formally elected Honorary Treasurer. In addition Tamer Emer was elected Honorary Editor and

Norman Borrett (who has been College Liaison Representative) was elected to the Committee. The post of Dinner Secretary was left vacant and the Committee will seek to co-opt someone.

It was decided to approach both Professor Turner and Professor Earles to invite them to become Vice Presidents of the Association in order to strengthen links with the College.

Keith Newton presented a KCLEA medal to Tamer Emer who was the only recipient able to be present.

The 13 Club Trophy was presented to Sue Doran for services to the Association.

At the close of the meeting those present enjoyed refreshments and the opportunity to talk informally to other members.

**Sue Doran
Honorary Secretary**

And now for something completely different...

Increasingly in the news today we hear about 'the information superhighway.' This is not a new concept - the 'highway' has been under construction for a great many years, linking up computers around the world (often as tenuously as our roads link our towns and cities). A recent article in a computing periodical questions the common sense behind the idea.

There are problems with the information superhighway: already we are hearing about the occasional poor sod waiting in a digital queue to log onto the Internet. To be sure, it's a wonderful vision - all those zeroes and ones streaming along

in an orderly fashion, bringing information and entertainment to the masses - but if it's anything like a real, non-virtual highway, God help us. For a start, it'll open two years late, after costing six times as much as the projected figures suggested, partly because of the expense of having to buy off all the NIMBY protesters and partly to compensate for shortfall in the contractors' now discontinued donations to Tory party funds. When it does open, half of it will be blocked off to facilitate urgently needed maintenance. And even when it's finally up and running, you won't be able to get a decent meal anywhere on it - excuse me a moment, we have some news coming in...

"A telephone conversation between a Mr. Eric Dweeb of Purley and his Auntie Dot in Sydenham concerning his current kidney problems was the victim of a tragic accident on the information superhighway. The conversation was trapped in a collision between a corporate database belonging to Strategic Planning Ltd and a game of Henry the Carnivorous Frog being downloaded by Wayne Detritus, 13, of Underclass, County Durham. As a result, the conversation was transformed into a hostile bid for the assets of the Numbskull satellite network, whose share values are plummeting as we speak. Compensation claims are running into the millions, and Auntie Dot reports that Eric has had another of his turns..."

Courtesy of MacUser, Vol. 10, No. 4



Obituaries

Professor C.M. White

C.M. White was shy and introspective by nature. Nevertheless, because of his alert, incisive and perceptive mind, he stimulated and made a lasting impact on those engineering undergraduates, postgraduates, researchers, colleagues and others who came under his influence both at King's, in the 1920s, and at Imperial, from 1933 until his retirement in 1966.

Cedric Masey White was born in 1898 and educated privately at Nottingham before pursuing his engineering studies at University College, Nottingham. During the First World War, he served for two years in the newly formed Tank Corps.

He was very much an individualist and throughout his academic career applied novel and fundamental thinking to his chosen field of civil engineering hydraulics and applied fluid dynamics. The productive years at King's, where he became a lecturer in 1927, with Professor A.H. Jameson as Head of Department, were followed by an equally fruitful period as Reader in the Hawksley Hydraulics Laboratory at Imperial, where Professor A.J.S. Pippard was then head of the Civil Engineering Department. Pippard's philosophy was to appoint the best person for the job and then give them free rein, a philosophy eminently suited to a man of White's character and calibre.

As Reader in Hydraulics at Imperial, White revitalised the Laboratory and between 1933 and 1939 pursued and supported fundamental researches into such topics as wave-pressures, sediment transport, spillway design, pipe and

channel friction, cavitation, drag forces and flood predictions. During the Second World War, studies concerned with the design of pneumatic breakwaters, with Mulberry Harbour, and similar projects were undertaken.

In 1946 White was given a personal Chair of Fluid Mechanics and Hydraulic Engineering. He undertook studies on problems concerned with thermal stratification of water reservoirs, with spillway designs for hydro-electric power installations, and similar topics. In addition, he gave full encouragement to his younger colleagues in their various pursuits concerned with flow-induced gate vibrations, wind effects on water, cavitation damage on concrete, air-entraining siphonic flows, river-flood control and associated topics.

With substantial support from the English Electric Company, White introduced a successful one year postgraduate course in Hydro-Power for home and overseas graduates. This course ran for two decades or so, only ending with the simultaneous retirements, in 1966, of White and Dr. Charles Jaeger.

Immediately before his retirement from the newly expanded Imperial College, "CMW" witnessed, in 1964, the completion of a new Hydraulics Laboratory which incorporated many of his design concepts. Special features included a large visual tank, a "Coriolis" turntable (for hydraulic model testing) and a tall working section which deliberately exceeded one atmosphere in water height.

Maurice J. Kenn (extracted)

Cedric Masey White, civil engineer: born 10 October 1898; Lecturer, Civil Engineering, King's College London 1927-33; Reader, Civil Engineering, Assistant Professor, Imperial College of

Rod McMillan

Kings College 1937-1941

It is with great regret that we report the death of Rod McMillan at the turn of the year.

Rod was a quiet man and a good friend apart from being a great supporter of all the activities of the Engineering Faculty. For many years he ran the family firm from an office in Surrey Street and it was natural that the proximity of this to College should lead to a close and continuous relationship with the Association.

His greatest contribution was being editor and general factotum for the KCLEA Directory which kept us all in touch both locally and internationally. It was particularly useful for those of us who worked, or travelled, overseas as we could always find a King's Engineer for comfort or information.

Producing the Directory was a great labour and one for which we must all be most grateful. For this and his Committee work Rod was awarded the 13 Club Trophy in 1982 - a trophy he had previously helped the Victoria Street Mob to win in 1965.

We will miss his company and the great work he did for us all.

J. D. Harris

Science and Technology 1933-45, Professor of Fluid Mechanics and Hydraulic Engineering 1946-66 (Emeritus); founder member, Hydraulic Research Board 1946-51, 1959-67; married 1921 Dorothy Lowe, 1946 Josephine Ramage (died 1991; one daughter); died Ontario 27 December 1993.



Obituaries

William O. Skeat

1904-1993

Bill Skeat, a keen railway enthusiast and great supporter of engineering at King's, went to the Great Locomotive Shed in the Sky on 21st December 1993.

He was born in St. Albans, in the shadows of the Abbey, in 1904 and returned in 1981 to spend his last years there with his third wife Phyllis. Sadly his last few years were dogged by Parkinson's Disease and later Senile Dementia, so attendance at King's functions including KCLEA Committee Meetings became rarer until finally he was no longer to be seen at the College.

At the age of eight Bill left his beloved St. Albans to live in Croydon keeping his grandmother company, and there he attended Whitgift School. In 1921 he joined the Great Eastern Railway as a premium apprentice until 1925. He had

an interview with Sir Nigel Gresley and during the General Strike he was a volunteer fireman on branch lines in the Doncaster area where he was in digs. At his digs he fell in love, and much later, in 1935, he married the daughter of the house, Betty, by whom he had a daughter, Theodora.

Shortly after Betty's death in childbirth Bill married his second wife Peggy and she bore him a son, Robert. In 1958 Peggy was killed in a road accident in London and Theodora and Bill were both injured, Bill only slightly.

During World War II he was employed in the Secretariat of the I. Mech E., and during the day and at night he was a member of the ARP firewatching on the roof of the Institution, for which he was awarded a Bravery Medal. In 1950 he joined the British Council as editor of "British Service News" from which post he moved three years later to become Secretary of the Institution of Water Engineers until his retirement in 1969, during which time he also visited the College to give lectures.

Bill was a lifelong campaigner for railway preservation and had been a member of the Stephenson Locomotive Society from the 1920s. During the 1970s he was editor of the Transport Trust Journal and was closely associated with setting up the Museum of Transport at Clapham which remained open from 1960 to 1973.

Bill wrote two books, "George Stephenson the Engineer and His Letters," published in 1973 by the I. Mech E. and in 1957, for which he will be particularly remembered by us, the



A sketch of W. O Skeat by his third wife, Phyllis.

"History of KCLES, 1847 to 1957." He also set up the Directory of Members of KCLEA, a task which subsequently passed to Rod McMillan.

Bill was a Fellow of King's College, as well as having been an AKC, and established the William Skeat Trophy which was competed for by undergraduates, but is currently in abeyance. He was President of KCLEA from 1962-1964 and was awarded the 13 Club Trophy on two occasions, in 1974 and again in 1986.

Elsewhere it has been written of Bill: "He was a great man, full of wisdom and knowledge. He will be greatly missed by all especially for his wonderful sense of humour, the like of which had an almost roguish side to it."

Everyone at King's, past and present, knows this friend and colleague will be sadly missed.

Colin Wilson

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