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Engineering

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N. Z. I. E.

news section

A supplement to "New Zealand Engineering" sent to all members of the New Zealand Institution of Engineers

President: B. W. Spooner, B.E., C.Eng., F.N.Z.I.E., M.I.C.E.

Secretary: R. W. K. Stevens, C.B.E.

The Secretary's Newsletter

Council and executive committee notes

Alterations to the rules

AT a special general meeting held in Wellington on 21 November, the alterations to the Rules recommended by the Council and set out in the notice of the meeting were approved, with one exception. The exception was the proposed alteration to Rule 8.2 (c) (i), which sets out the conditions under which the overseas rate of subscription is payable. The meeting considered the wording proposed by the Council to be capable of misinterpretation and, while approving in principle the reduction of subscription for members resident overseas, resolved that the Council redraft the Rule in unambiguous terms.

The current Rules, as set out in *Handbook No. 1*, contain a number of minor printing errors and inconsistencies. The Council has decided that the Rules, as amended by the special general meeting, and corrected to eliminate existing errors, shall be reprinted and made available to members on request. The text of the amendments approved by the special general meeting will be published in the next issue of *N.Z. Engineering*, and it is suggested that members who do not intend to ask for a copy of the reprint cut out the amendments and insert them in their existing copies of the Rules.

Change of address

The P.O. Box number of the Institution has been changed. The correct address is now P.O. Box 12241, Wellington N.I.

1968 statistics return

Returns from members of the statistics questionnaire have now (15th December) reached the 83% mark. This is a very satisfactory figure, and clearly illustrates the value of a follow-up to the initial form.

The statistics committee expresses its thanks to the members for their co-operation and support.

General conditions of contract

The executive committee for engineering science received at its December meeting an interim report from I. B. Rowntree (F) on the review of S.S.623, General Conditions of Contract. Mr Rowntree suggested, inter alia, that certain clauses be redrafted and submitted to suitable persons or groups for comment. The meeting was advised that the Standards Association had tentatively proposed that a meeting of all interested parties be held in March, and it was agreed that it would be advantageous to make the rewritten clauses and the comments on them available for discussion at the meeting.

Mr Rowntree has been asked to proceed with the redrafting. The local bodies and consulting engineers divisions, the building services group and C. L. Pask have been asked to study and comment upon the drafts.

Engineering technicians

A successful meeting was held in Wool House in Wellington on 12 December, under the chairmanship of E. R. Ireland (M), to discuss the second report of the Institution on "The Engineering Technician Group in New

Zealand", published in *N.Z. Engineering* in September 1968. Among the seventy-odd people present, technician groups, educational institutions, and the major government departments were particularly well represented. The meeting showed most concern with technician training, in particular the need for providing avenues by which straightforward progress could be made from the Engineering Technician's Certificate to the N.Z.C.E., and to the Bachelor of Engineering degree, and, for those who had first attempted a course that had proved too hard for them, vice versa. The meeting resolved that a committee should be set up to examine this, among other training problems, and put forward recommendations to a further session of the meeting, to be convened when necessary.

The Institution arranged for a full transcript of the deliberations of the meeting to be taken, and a shortened version of this will be published in a forthcoming issue of *N.Z. Engineering*.

Liaison with technician organisations

In New Zealand there are some 15 organisations catering for the interests of engineering associates and technicians. The Council wishes to establish closer liaison with these organisations and has asked the branch chairmen, who are ex-officio members of Council, to ensure that invitations to attend branch meetings are extended to these organisations whenever papers of interest to them are to be presented.

Dobson Lectures for 1969

The venues for the Dobson Lectures for 1969 will be Auckland, Hamilton, New Plymouth, Wellington, and Whangarei. The dates have not yet been finalised, but it is probable that the lec-

tures will be given during June. The principal lecturer will be J. G. Smith, General Manager of Fletcher Construction Co. Ltd., who will speak on "Construction Engineering in New Zealand".

Regulations for the training of the professional engineer

The Council has now approved the publication of a revision of *Handbook No. 2: The Regulations for the Training of a Professional Engineer*. The text has been sent to the printers and the new regulations will be available later this month.

The important differences between the 1964 and the 1969 editions are as follows:

1. *Definitions.* Various definitions have been introduced in section 2.

2. *Segregation of the regulations.* The various regulations relating to the two classes of entrants to the Institution, depending on the two methods of obtaining the academic qualification, have been assembled separately in new section 4. There is a certain amount of repetition in this section, but this has been done deliberately for the sake of clarity.

3. *Equating experience and formal training.* Existing regulation 3.1 equates "training by experience" with "formal training" in the ratio of 2:1. In this country, where it is difficult, if not impossible, for some employers to implement formal training programmes, the existing arrangement does not appear equitable. Hence, in new regulation 6 of section 4, "training by experience" and "formal training" are placed on equal terms.

4. *Period of academic education and*

Candidates for Election

Any member wishing to communicate with the secretary on the subject of these elections should do so not later than the twelfth day of the month following publication.

For Election as Members:

Barton, C. J. W.; Fox, E. G.; Grantham, K. N.; Hirst, J. E.; King, S.; Leggett, J. E.; Niven, D.; Smart, J. I.; Wong, B.

For Election as Associates:

Forrest, D. C.; Greig, A. G. E.; Langley, C. C.; Turoa, J. T.; Wilson, G. M.

For Admission as Graduates:

Adcock, H. B.; Dudman, C. J.; Hollister, I. D.; Sutton, R. A.

For Transfer to Class of Fellows:

Ellis, R. H.; Gapes, R. F.; James, R. L.

Changes in the Roll of Members

The following additions to and changes in the Roll of Members result from recent decisions of the Council, subject to confirmation under the provisions of Rule 7.1 where applicable.

ADDITIONS

Fellows

- F. K. L. Anderson, F.I.Mech.E., 50 The Parade, Paekakariki.
 F. J. S. Bright, F.I.Mech.E., M.Soc.Auto.E(U.S.A.), 4 Wimborne Avenue, Mt. Eliza, Victoria 3930, Australia.
 F. J. P. Lomas, B.Sc., M.I.E.E., 17 Ponsonby Road, Karori, Wellington.

Graduates

- Grad. I. L. Brewer, B.E.(Civil), 5 Owhata Road, Rotorua.
 Grad. P. L. Campbell, B.E.(Civil), Staff Hostel, Otematata.
 Grad. C. V. Currie, B.E.(Elect), M.E.(Elect), 213 Colombo Street, Christchurch 2.
 Grad. J. R. Dustan, B.E.(Civil), c/o C. C. Davidson, P.O. Box 256, Blenheim.
 Grad. D. W. Hodder, B.E.(Elect), c/o N.Z. Electricity Department, 40 Vanguard Street, Nelson.
 Grad. D. S. Stubbs, 26 Harbutt Avenue, Mt. Albert, Auckland.

Student

- Stud. G. W. Hall, c/o Poverty Bay Catchment Board, P.O. Box 338, Gisborne.

Associate

- Assoc. B. G. D. Russell, 24 Vardon Road, Hamilton.

PROMOTIONS

Graduate elected Member

- M. A. L. R. Merrifield, B.E.(Civil), M.C.S., 16 Sackville Crescent, Worthing, Sussex, England.

Student elected Member

- M. A. D. Stevens, B.E.(Civil), Power Design, Ministry of Works, P.O. Box 12041, Wellington.

Student promoted Graduate

- Grad. M. E. Meads, c/o Papakura Borough Council, P.O. Box 110, Papakura.

practical training. Existing regulation 10 requires a student trainee who is qualifying via the Institution examination to be educated and trained for a minimum period of 8 years, whereas a student trainee qualifying via a university degree may qualify in 7 years. The difficulty of qualifying via either route is considered to be now about equal, and hence the period has been made 7 years in each case. (See new regulations 1 and 11.)

5. *Qualification via N.Z.C.E.* Notice is taken in regulation 7 of the admission by the universities at a comparatively advanced stage of the degree courses of

certain holders of the N.Z.C.E. qualification.

6. *Ethical responsibilities.* In new clause 5.6, the attention of the trainees is directed to a professional engineer's ethical responsibilities.

7. *Human and economic needs.* In new clause 5.7, the attention of the trainees is directed to the need for taking into account human and economic needs when making decisions on technical problems.

8. *Widening of vision.* In new clause 5.8, the desirability of an engineer widening his vision on certain important matters is referred to.

9. *Specialisation.* In new section 6, the desirability of permitting more specialisation in training programmes is recognised.

10. *Employers to permit inspections.* In new clause 6.3, employers are requested to permit, if required, inspection of training facilities.

11. *Changes in training programmes.* In new section 6, certain training programmes are printed. Various changes have been made to the existing ones.

12. *Specialist training programmes.* A number of the specialist training programmes are being prepared. These will not be printed because of the small numbers required. They will be made available in cyclostyled form on request.

Graduates for Election as Members:

Biggar, R. G.; Davis, D. S.; Doig, K. D.; Dowsing, R. S.; Evans, J. A. A.; Garrett, I. J.; Geoghegan, J. P.; Graham, J. A.; Graham, P. B.; Hawthorne, R. K.; Hill, B. F.; Kirk, J. W. D.; Lucy, K.S.; Martin, Dr G. R.; Morgan, P. J.; Munting, J. L.; Nolsoe, J.; Paulin, K. A.; Peters, L. J.; Petricevich, M. R.; Rankine, R. M.; Renwick, R. G.; Rothwell, B. S.; Sang, R.; Small, K. E.; Spence, R. D.; Stanton, G. B.; Szymanski, Z. J.; Tapper, G. L.; Wood, A. W.; Wright, M. F.

Student for Election as Member:

Tyler, D. I.

The journal of

THE N.Z. INSTITUTION OF ENGINEERS, Fourth Floor, Molesworth House, 101 Molesworth Street, P.O. Box 12241, Wellington N.I.

President, B. W. SPOONER, B.E., C.ENG., F.N.Z.I.E., M.I.C.E.

Secretary, R. W. K. STEVENS, C.B.E.

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The New Zealand engineer and planned to cover civil, electrical, mechanical, structural engineering and welding, this journal is received by all members of the N.Z. Institution of Engineers and the N.Z. Institute of Welding. Opinions expressed in the journal are not necessarily those of those two bodies or of the publishers.

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Managing Editor

F. N. STACE, B.E.(ELEC.MECH.), B.E.(MECH.), C.ENG., F.I.E.E., M.N.Z.I.E.

Assistant Editor

M. J. BUMPERS, B.A.

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Cover picture

A modern sawmill at Waipa. The role of engineers in the work of the N.Z. Forest Service is described in a report beginning on page 47. (*N.Z. Forest Service Photo by T. Ransfield.*)

(*Apologies to L. Homer of the N.Z. Geological Survey, who should have been credited last month for his striking cover photo of an endangered transmission line tower.*)