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news section

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

President: J. C. North, B.E., C.Eng., F.N.Z.I.E., F.I.C.E., F.I.E.Aust., F.R.S.H.

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

The Secretary's Newsletter

More Notes on Management Training

IN our report in the April issue of *New Zealand Engineering*, we said that we were building up an information file on the management courses that are currently available in New Zealand. The file is getting thick, and we thought it would be sensible to summarise some of the material that we have obtained. But before we embark on this, there is one error that we made in the April report that must be mentioned. It was in the paragraph dealing with the committee's consideration of the training currently offered, and we said that the committee recommended "that one formal qualification should be acquired". This was not right; the word "one" should have read "any", and the full sentence should have been—"The committee recommended that any formal qualification should be acquired through existing courses of study at a university". We apologise for that mistake.

And this leads us in to the top end of the training spectrum, the university courses that are currently available. There are the full courses for Bachelor of Commerce or B.C.A. degrees; at Victoria and Otago these can be taken part-time. Auckland has a one year, full-time diploma course in Business and Industrial Administration* and a part-time diploma course in Building Management and Construction. At Victoria, there is the well-established full-time course for the Diploma in Public Administration, which will be well-known to those in Government or local body employment. Victoria is also trying to establish a Diploma in Business Administration, with one academic year's work spread over two years on a sandwich basis. This is not being run this year, because of staffing difficulties,

*This course is also available, and commonly taken as, a two-year part-time course.

but it is hoped to have a course going in 1970. In Canterbury, there is the full-time course for the Diploma in Business Administration, which lasts one academic year.

Outside the universities, the general management course with the highest prestige is that run by the New Zealand Administrative Staff College, a joint venture of the New Zealand Institute of Management and the New Zealand Institute of Public Administration. Quoting from the staff college handbook, the emphasis is "on New Zealand needs and experience, and the course is planned to suit men who hold, or are likely to hold in the near future, top executive positions. The collective experience of members is added to by judicious choice of lecturers from top management in business, industry, and government, and from the University." At the moment, there are two of these courses every

MANAGEMENT TRAINING COURSES SPONSORED BY THE INSTITUTION

As mentioned in the April issue, this question has been under discussion by Council, and preparatory work is being done with the Universities of Wellington and Auckland. The aim is to arrange a week-long residential course, with required preparatory reading, for engineers who have been employed from four to five years after graduation. The general course content is expected to cover fundamental management concepts, finance, and general topics including law, training, personnel management, and project management.

Originally, the aim was to organise the course for next February, but at the recent meeting of Council, it was agreed that there are too many other distractions during the summer months, and that the May vacation would be a more suitable time to choose.

It is hoped that this project will get under way in May 1970.

year; they are in two sessions, each lasting two weeks, with a three-week interval between. There are just over thirty people on each course. The cost of the course is \$375, and applications to join it come from individuals, sponsored where applicable by the company or organisation for which they work. Applicants are selected by the staff college so that there is a fair spread of experience and variety of occupation in each course. Also, it is ensured that all the members of the course have had an adequate background from which to contribute to the discussion. Not all applicants are accepted. The topics that are covered are: management, organisation, communication, cost and financial administration, personnel, planning and control, marketing, and forecasting and adaptation to change.

There were two engineers on the first 1969 course, R. F. McCullagh of the N.Z.E.D. and J. V. Brown of the Auckland Regional Authority. Unfortunately, we could not get a comment from Mr Brown, who was away in Sydney when this article was being written; but Mr McCullagh said that he thought the course was most valuable; he found that it extended him, and that the calibre of the topic supervisors and speakers was very high indeed. If there was one topic that he found of greater value than the others, it was forecasting and adaptation to change, for which the topic supervisor was Dr M. C. Probing, Director of Physics and Engineering, Laboratory of the D.S.I.R.

The new Diploma of the New Zealand Institute of Management is in its early stages, and no fair estimate of its value can yet be made. This is a part-time course, like the other institute courses, and tuition is widely available in colleges and technical institutes and from the Technical Correspondence Institute. However, the greatest value to be obtained by engineers from the institute does not appear to lie in the formal courses but in the meetings and informal courses organised by the local branches. We circularised the branch secretaries of the institute to get an idea of the content of their programmes, and

they are remarkably varied, particularly in the larger centres. In Christchurch, for instance, there is a five-stage executive development programme, lasting several years, which is becoming well established and includes a residential course and seminars in its coverage of the subject. There are many other training courses organised, together with the regular activities of the subsidiary groups such as the Work Study Society. In Wellington, the institute has a Public Speaking Society, a Work Study Society, and a Production Forum amongst its subsidiary groups. Outside the main cities, the institute has indicated its keenness to cooperate with the Institution branches—and, incidentally, there was mention of such cooperation in last year's annual report from the West Coast branch, where members had attended a lecture on the critical-path method of construction management, organised by the institute.

Amongst the letters received from the N.Z.I.M. branch secretaries, this quotation from the Hawke's Bay division's letter is typical: "My council, or education committee, would be pleased to hear from engineers in Hawke's Bay with suggestions on the type of course or seminar that they would like held here. Provided only that sufficient response is received and suitably-qualified course leaders and lecturers are available, courses may be arranged and held in a wide variety of subjects and the council of this division would be happy to discuss the organisation of a general or specialist course with your members at any time."

Last—but, naturally, not least—come the informal courses run by the branches of the Institution. Wellington branch has been particularly active in this respect, in conjunction with the Department of University Extension at Victoria, and has had an excellent response from its members. The Waikato/Bay of Plenty branch worked with the University of Waikato last year and arranged 10 two-hour weekly lectures on management in construction and 150 members enrolled, with 40 applicants having to be turned down. This year, they are organising another course with the university and with the local branch of the Institute of Architects on design decisions in the building industry. They expect to arrange an extension course each year.

That is a very brief run-through of the information that we have, and does little more, we know, than indicate what is going on. If you would like more detailed information on any aspect that we have touched on, please let us know. And also, again, can we ask for information from you about the courses you have been on, and the value you received from them—because, when all is said and done, that is what really matters.

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

Members

- M. P. S. Crighton, M.I.C.E., 5 Grierson Place, Pukkohe.
- M. M. G. G. Gurr, B.A.(Cantab), M.I.E.Canada, F.I.E.Aust., c/o City Engineer's Office, P.O. Box 937, Hamilton.

Associates

- Assoc. C. R. Bensemam, M.N.Z.I.E.T., M.N.Z.I.D., 243 Mayfair Avenue, Hastings.
- Assoc. G. Kananghinis, Dip.Struct. & Civil Engrg.(Bucharest), 13 Valley Street, Wellington.

Graduates

- Grad. K. J. Armstrong, B.E.(Civil), 172 Bourke Street, Invercargill.
- Grad. R. W. Becker, B.E.(Hons)(Elect), 9 Piko Crescent, Christchurch 4.
- Grad. W. T. Bishop, B.E.(Elect), Associate Member of I.E.E., 18 Parnell Street, Lower Hutt.
- Grad. C. E. Boulton, B.E.(Civil), 197 Karori Road, Wellington 5.
- Grad. M. R. Bryant, B.E.(Hons)(Elect), P.O. Box 445, Hamilton.
- Grad. R. S. Carstens, B.E.(Civil), 346 Kohimarama Road, Auckland 5.
- Grad. R. J. Cook, B.E.(Elect), 94 Buccleugh Street, N.E.V., Dunedin.
- Grad. P. J. Davidson, B.E.(Elect), 10 Burcham Street, Taita, Lower Hutt.
- Grad. J. A. Dean, B.E.(Civil), 47 Walter Road, Eastbourne.
- Grad. R. J. Dunlop, B.E.(Civil), "Creekside", Southbrook, Rangiora.
- Grad. G. M. Farrar, B.E.(Chem), Flat 2, 304A Sandringham Road, Auckland 3.
- Grad. W. J. D. Guest, B.E.(Hons)(Civil), c/o Civil Engineer's Office, New Zealand Railways, Wellington.
- Grad. D. R. Johns, B.E.(Hons)(Elect), 39 Thornycroft Street, Christchurch 5.
- Grad. M. D. Kennedy, B.E.(Civil), 26 Woodhouse Avenue, Wellington 5.
- Grad. R. I. McCutcheon, B.E.(Elect), 44 Penrose Street, Lower Hutt.
- Grad. I. M. Meggett, B.E.(Civil), 43 McColl Street, Brooklyn, Wellington 2.
- Grad. R. B. Mountjoy, B.E.(Elect), 39 Kinghorn Street, Strathmore, Wellington 3.
- Grad. D. J. Mulholland, B.E.(Hons)(Civil), 903 S. Irving Street, Arlington, Virginia, 22204, U.S.A.
- Grad. M. G. Reid, B.E.(Mech), Rosyth Hostel, Clyde Street, Tokoroa.
- Grad. C. R. Scarf, B.E.(Elect), 189 Taieri Road, Kaikorai, Dunedin.
- Grad. D. M. Scott, B.E.(Civil), Flat 5, 385 Worcester Street, Christchurch.
- Grad. R. L. Taylor, B.E.(Civil), 67 Kawai Street, Nelson.
- Grad. W. W. Whitley, B.E.(Mech), 220 Earn Street, Invercargill.
- Grad. I. F. Wolfram, B.E.(Mech), c/o M.O.W. Hostel, Otemataa.
- Grad. C. F. Wright, B.E.(Hons)(Civil), 46 Hamilton Avenue, Christchurch 4.

PROMOTIONS

Graduate elected Member

- M. B. T. W. Anderson, B.E.(Civil), M.I.C.E., 27 Emerson Street, Auckland 5.

Student elected Member

- M. G. J. Bell, B.E.(Hons)(Civil), M.I.C.E., M.I.E.Aust., A.M.I.Struct.E., 1 Nadoo Street, Cooma North, N.S.W. 2629, Australia.

Student promoted to Graduate

- Grad. M. R. Black, 19A Dudding Avenue, Northcote, Auckland.
- Grad. A. G. Crang, Flat 4, 12 Nixon Street, Hamilton.
- Grad. G. R. Goodman, c/o City Council, P.O. Box 7, Invercargill.
- Grad. B. L. Hancock, B.E.(Civil), P.O. Box 119, Manapouri Hydro.
- Grad. J. R. Jenks, 80 Abbotts Way, Auckland 5.
- Grad. D. G. Lear, 6 Taranaki Road, Kohimarama, Auckland.
- Grad. A. C. MacKenzie, M.O.W., P.O. Box 140, Alexandra.
- Grad. P. W. A. Read, 15 Bridge Avenue, Auckland 8.
- Grad. P. A. Sampson, 27 Ruataniwha Street, Waipawa.
- Grad. C. A. S. Sligo, 15 Lydia Avenue, Auckland 9.
- Grad. M. W. Tait, 130 Derwent Street, Island Bay, Wellington.
- Grad. A. T. Watkins, 22 Stirling Place, Tokoroa.
- Grad. F. M. White, B.E.(Civil), A.M.I.E.Aust., 19 Murdoch Street, Turrumurra, N.S.W. 2074, Australia.

Professional Interview

THE following candidates were successful in the Professional Interview conducted by The New Zealand Institution of Engineers in May 1969—

Civil

Andrew, P. R.; Bolton, B. S.; Butterworth, R. G.; Carter, J. H. R.; Cormack, L. G.; Davidson, D. D.; Dawson, D. R.; Dunstan, J. R.; Estcourt, S. K.; Falloon, P. J.; Francis, H. B.; Grayling, J. H.; Hall, R. C.; Hanson, C. A.; Hobman, B. B.; Knowles, R. B.; Lupton, E. B.; McCombs, P. T.; McDonald, K. I.; McGivern, K. C.; McGregor, I. D.; McIntosh, A. C.; Marsh, G. W.; O'Sullivan, F. D.; Pearson, I. B.; Prendergast, J. M.; Rutledge, J. C.; Shanley, G. M.; Shute, D. R.; Swan, P. D. F.; Webb, R. H. L.; Williment, P.; Wilson, P. D.; Wilton, F. T. M.

Mechanical

Barrett, M. L.; Boulton, J. R.; Bowen, A. J.; Cave, A. J.; Gardiner, D. A.

Purchase, R. K.; Wilkes, D. S.; Wilson, J. L.

Electrical

Calder, J. R.; Currie, C. V.; Gibson, J. D.; Lusk, T. A.; Miller, D. J. McC.; Newcomb, D. A.; Reeks, D.; Thomson, R. W.

Telecommunications

Gabriel, W. P.; Gibson, J. H.; Mountjoy, R. B.; Smith, T. W.

The "Professional Engineer's Yearbook"

In the May issue it was announced that this yearbook would again be published in 1969. Lack of support from advertisers however, has made the production of a 1969 edition too expensive for both the publishers and the Institution and the proposal has therefore been deferred.

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

Hanson, C. A.; Miller, D. J. McC.; Prendergast, J. M.; Scanlan, E. A.; Snape, A.

For Election as Associate

Webb, W. J.

For Election as Graduates

Ainsworth, D. R.; Baker, J. K. D.; Black, R. J.; Gibson, K. A.; Hunter, I. A.; Nimmo, J. M.; Smith, A. L.; Williams, G. B.; Williams, G. J.

For Admission as Students

Heaslip, P. T. R.; Notley, G. D.

For Transfer to Class of Fellow

Dennistoun-Wood, A.

Graduates for Election as Members

Andrew, P. R.; Ashton, C. H. W.; Cave, A. J.; Davidson, D. D.; Estcourt, S. K.; MacGregor, I. D.; Smith, V. L.; Wilson, J. L.

Student for Promotion to Graduate

Holbrook, R. J.

ENEX Incorporated

The formation of the Engineering Export Association of New Zealand (ENEX) a new export body aimed at selling New Zealand expertise in engineering architecture, contracting and manufacturing abroad, was announced on 21 May 1969.

The association will concentrate its efforts initially in the South Pacific and Asia. Two projects, worth more than \$60 million, have already been brought to the notice of the association by the Department of External Affairs and are under consideration.

It is hoped that this expanded opportunity will stem the "brain drain" and allow New Zealand engineers and architects to work within a national framework to offer integrated services overseas.

Encouraging support for ENEX has come from the Ministry of Works, which has offered hydro-electric design skills and personnel to support an ENEX-inspired group of New Zealand consulting engineers who are making an offer to the Malaysian National Electricity Board for the design of hydro-electric projects in Malaysia.

Engineers, architects, contractors and manufacturers seeking further information and a copy of the prospectus should contact Ron Clarke, P.O. Box 429, Auckland. Telephone 370-786.

The Industries Division

THE new division, established at a meeting held during the 1968 annual conference at Rotorua, first under an interim committee and later under a formal and widely representative committee chaired by J. D. Bradshaw, has now passed through the inevitable stage of "what has to be done and how best to do it".

The objects, as now adopted in the approved rules, are "to further the objects of the Institution, particularly in the field of industry". When these are examined, as one would expect from the broad definition, they appear to multiply in detail, to an extent not foreseen by the 1968 Rotorua meeting.

However, there is a clearer pattern emerging that the division, in furthering the "advancement of the science and profession of engineering", particularly in the field of industry, will provide a focal point for our members engaged in industry. It will allow them to express themselves collectively and to do all possible for the progress and welfare of New Zealand industry, not forgetting the engineers employed therein.

It will do more than this. Already it has become apparent that there is a large number of chemical engineers in industry in this country, anxious to ally themselves with a professional body interested and active in the problems and development of New Zealand industry. These may now be encouraged to join the Institution, and with other industrialists become active in the affairs of the Industries Division. An aspect also drawn forcibly to the division's attention is the need for advice and help in the education and training of graduate engineers for industry. A paper by Professor Titchener, giving a university view of this and presented during the 1969 conference, was attended by a widely representative selection from industry, including the New Zealand Manufacturers' Association. An interesting and lively discussion followed from which it became clear that the new division could have an important part to play in fostering education and training.

With this widening view it also became clear that there are many people that the division should get to know and maybe others who would like to know it, first to talk and then to work together