

## ABSTRACT OF PROCEEDINGS

OF THE

# *Sydney University Engineering Society*

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### ANNUAL GENERAL MEETING ON MAY 9, 1917.

The President, Mr. W. Poole, was in the chair, and there were 33 members present.

The Council for the ensuing year were elected. Mr. H. J. Swain was elected President, and was welcomed to the chair by Mr. Poole.

By the permission of Mr. Poole, the Presidential Address on "Engineering and Technical Education" was opened for discussion; the meeting was adjourned, and the discussion completed at a subsequent meeting, held on 23rd May, 1917.

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### ORDINARY GENERAL MEETING ON JUNE 13, 1917.

The President and 12 other members were present. A discussion was held on the "Registration and Licensure of Engineers."

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### ORDINARY GENERAL MEETING ON OCTOBER 24, 1917.

The President and 19 members and visitors were present. A paper was read by Dr. R. H. Chapman on "The Conditions for Safe Working Under Compressed Air." A hearty vote of thanks was accorded to Dr. Chapman for his interesting paper.

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### SPECIAL GENERAL MEETING ON DECEMBER 12, 1917.

A special general meeting was held to consider a letter from the South Australian Institute of Engineers, suggesting that a Federal Institution of Engineers be formed, and that the Society should appoint delegates to attend a conference of Engineering Societies, to be held in Melbourne. The President (Mr. Swain) and Messrs. Bradfield, Dare and Poole were elected delegates to represent this Society at the conference.

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### ORDINARY GENERAL MEETING ON MARCH 14, 1918.

The President and 24 members were present. Mr. W. Scott-Griffiths, Town Planning Engineer, delivered a lecture on "Canberra—The Constructional Proposals and Estate Development Under Town Planning." The lecture was discussed by several members, and a hearty vote of thanks was accorded to Mr. Scott Griffiths for his lecture.

## ANNUAL GENERAL MEETING ON MAY 8, 1918.

The President, Mr. Swain, was in the chair, and there were 26 members present.

The report and balance sheet for 1917-18 were read and adopted.

The Council for the ensuing year were elected, and the President, after welcoming the President-Elect, Mr. J. P. Tivey, delivered his Address. A vote of thanks was accorded to the retiring President for his Address and services during the year.

## ORDINARY GENERAL MEETING ON JULY 10, 1918.

The President and 30 members were present. A resolution was carried placing the services of the members of this Society at the disposal of the Commonwealth Government for the purpose of forming Honorary Advisory Committees in connecting with National Organisation arising out of the war, and this resolution was communicated to the Acting Prime Minister.

A paper by Professor R. W. Hawken on "Column Analysis and Design" was communicated by Mr. J. J. C. Bradfield. An interesting discussion followed, and a vote of thanks was accorded to Prof. Hawken, and also to Mr. Bradfield for reading the paper.

## ORDINARY GENERAL MEETING ON AUGUST 14, 1918.

The President and 20 members were present. Mr. Poole delivered a lecture on "Molybdenum—Production, Properties and Uses." A discussion followed, to which Mr. Poole replied.

## ORDINARY GENERAL MEETING ON NOVEMBER 29, 1918.

The President and 55 members and visitors were present. The President explained that this meeting had been fixed for 13th inst., but was postponed on account of "Armistice" Celebrations.

Notice of motion was given of additional sub-clause to Clause 13 of the Constitution.

A paper was read by Mr. A. D. J. Forster on "The Capacity of Rapid Transit Railways." An interesting discussion followed, and a vote of thanks was conveyed to Mr. Forster.

## ANNUAL GENERAL MEETING ON JUNE 11, 1919.

The President (Mr. Tivey) and 25 members were present.

This meeting, originally called for the 9th April, had to be postponed on account of the influenza epidemic.

The resolution moved at previous general meeting, to amend Clause 13 of the Constitution, was carried. The report and balance sheets were read and adopted. The Council for the ensuing year were elected, and the President welcomed to the chair the President-Elect, Mr. J. J. C. Bradfield.

Mr. Tivey then delivered his Presidential Address, and a vote of thanks was conveyed to him for his Address and the services he had rendered to the Society during his year of office.

Forty-nine new members were elected.

## ORDINARY GENERAL MEETING ON JULY 25, 1919.

The President and 70 members were present. Two new members were elected.

The Constitution was amended by the addition of Clause 34 as follows:—

## AMALGAMATION WITH KINDRED SOCIETIES.

## Clause 34.

(a) The Society may amalgamate with kindred Societies within the Commonwealth in the formation of an Institution or such similar body with the object of furthering the interests of the Engineering profession, provided that such proposal shall be carried at a general meeting at which at least two-thirds of the members present shall vote in favour of the proposal; and further, that the proposal shall be submitted to a postal ballot of members, and if two-thirds of the members so voting are in favour of the proposal, it shall be deemed to be carried.

(b) In the event of the Society deciding to amalgamate with kindred Societies, the Council shall remain in office for such period as may be necessary after amalgamation, and shall carry on such business as the Council shall deem necessary, and may suspend the collection of subscriptions.

(c) The Council shall have power to wind up the affairs of the Society, and decide to what purpose the funds standing to the credit of the Society shall be devoted, and for that purpose may appoint a Trustee or Trustees to administer such funds.

(d) If it shall be decided to wind up the affairs of the Society, Life Members may, if they so desire, receive the balance of the compounding fee paid for life membership, after deducting 10 per cent. of the amount so paid for the first year, and thereafter 10 per cent. of succeeding balances, provided that such claim shall be made in writing to the Trustees within six months succeeding the date of appointment of the Trustees.

The following recommendation of the Council was put to the meeting:—

“The Council recommends the members of the Sydney University Engineering Society to accept the Constitution of the proposed Institution of Engineers of Australia out of a firm desire to see the new institution successfully inaugurated, but regards certain modifications of the proposed Constitution as absolutely essential, and considers it imperative that the first Council of the Institution shall revise the draft Constitution, particularly in regard to the amendment of Clause 13.”

After a long discussion, the recommendation was carried unanimously.

Pending the confirmation of the above resolution by postal ballot Messrs. J. J. C. Bradfield and H. H. Dare were elected as this Society's representatives on the First Council of the Institution.

## ORDINARY GENERAL MEETING ON SEPTEMBER 15, 1919.

The President and 30 members were present.

The President announced the result of the postal ballot re the acceptance of the Constitution of the proposed Institution of Engineers of Australia—128 votes were in the affirmative, 5 were informal, and there were no votes in the negative.

A paper was read by Mr. A. Morrison on "Some Aspects of the Hydrography of Eastern Australia."

Twenty-eight new members were elected.

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#### JOINT GENERAL MEETING ON OCTOBER 22, 1919.

This was a joint meeting of the Engineering Association of New South Wales, the Electrical Association of Australia (N.S.W. Branch), and the Sydney University Engineering Society.

The President, Mr. Bradfield, vacated the chair, and asked Professor Warren, who had just been elected the first President of the Institution of Engineers of Australia, to preside at the meeting.

Mr. T. H. Houghton, on behalf of the Advisory Council of the Institution of Civil Engineers (London), congratulated the amalgamating Societies on the formation of the Institution of Engineers of Australia.

Mr. H. H. Dare, M.E., M.Inst.C.E., then read a paper on "The River Murray Waters Scheme." A vote of thanks to Mr. Dare was moved by Professor Chapman (Adelaide), and carried.

There were about 150 members of the Societies present.

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#### ORDINARY GENERAL MEETING ON NOVEMBER 7, 1919.

This meeting was in the nature of an open evening. The President and over 100 ladies and gentlemen were present.

Mr. C. H. Bertie, City Librarian, delivered a lecture on "The Growth of Sydney."

A vote of thanks was accorded to Mr. Bertie for his interesting lecture.

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#### ANNUAL GENERAL MEETING ON MAY 19, 1920.

The President and about 100 members were present.

The report of Council and the balance sheets were read and adopted.

Mr. J. J. C. Bradfield, M.E., M.Inst.C.E., delivered his Presidential Address on "Engineering Developments in New South Wales since the Inauguration of the Commonwealth." A vote of thanks was accorded to Mr. Bradfield for his interesting address, and also for his work as President during the session.

There was no election of a Council, as under the Constitution, since the Society had become a Foundation Society in the Institution of Engineers of Australia, the present Council would remain in office until the affairs of the Society are wound up.

# ABSTRACT OF PROCEEDINGS

OF THE

## STUDENTS' SECTION

### *Sydney University Engineering Society*

#### SPECIAL MEETING ON MARCH 30, 1917.

Mr. Kenniff was in the chair, and there were 55 others present.

It was agreed that the Undergraduate Members of the Engineering Society should form a Students' Section, to be governed by Council, consisting of Secretary, Treasurer, and five delegates, one for each year of Engineering, and one for 3rd year Science.

#### GENERAL MEETING ON APRIL 19, 1917.

Mr. Pegum in the chair, and 46 members were present.

A paper was read by Mr. Willan on "Railroad Tunnels in Shale and Sandstone."

#### GENERAL MEETING ON MAY 9, 1917.

Mr. Hart was in the chair, and there were 38 members present.

A paper was read by Mr. Pegum on "Preliminary Work in Dam Construction." After discussion by several members, a hearty vote of thanks was accorded to the lecturer.

#### GENERAL MEETING ON MAY 24, 1917.

There were present Mr. Braithwaite (in chair), 49 other members, and 8 visitors.

An interesting lecture was given by Mr. Bremner, of Commonwealth Oxygen Co., on "The Commercial Preparation of Oxygen and Its Uses in Oxy-Acetylene Welding." A hearty vote of thanks was accorded the lecturer.

#### GENERAL MEETING ON JUNE 7, 1917.

Mr. Dunster was in the chair, and there were present 37 other members and 4 visitors.

Mr. Pitz read a paper on "Rolling of Steel at Newcastle."

## GENERAL MEETING ON JULY 24, 1917.

There were present Mr. McBurney, and 42 other members.

A paper was read by Mr. Storey on "Mechanical Refrigeration." The paper was discussed by several members.

## GENERAL MEETING ON SEPTEMBER 20, 1917.

Mr. Young was in the chair, and there were 49 other members present.

Mr. W. E. Cook, M.E., delivered an address on "The Sewage Disposal of North Sydney." A hearty vote of thanks was accorded Mr. Cook.

## ANNUAL MEETING ON APRIL 9, 1918.

There were present Mr. Dunster (in the chair), and 58 other members.

New office-bearers were elected for ensuing session.

## GENERAL MEETING ON MAY 7, 1918.

Mr. Willan was in the chair, and there were 48 other members present.

A paper was read by Mr. Dunster on "Marine Propulsion." After discussion, a vote of thanks was accorded the author.

## SPECIAL GENERAL MEETING, MAY 17, 1918.

It was decided to establish a journal in connection with the Engineering School, and a Constitution was adopted.

## GENERAL MEETING, JULY 4, 1918.

There were present Mr. Hart (in the chair), and 30 others.

This meeting took the form of a debate: "That the Present Status of the Engineer is due to his Narrowness of Outlook."

## GENERAL MEETING ON JULY 11, 1918.

Mr. Granowski was in the chair, and there were 42 others present.

Mr. A. Morrison, B.E., gave a lecture on "River Gauging." A hearty vote of thanks was accorded the lecturer.

## GENERAL MEETING ON JULY 15, 1918.

There was present Mr. Jenkins (in the chair) and 40 others.

Mr. Danvers Power gave a lecture on "Coal Mining."

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GENERAL MEETING ON NOVEMBER 18, 1918.

This meeting was held to discuss possibilities of increasing the library facilities at the Engineering School. The constitution of a library was drawn up.

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ANNUAL GENERAL MEETING ON MAY 15, 1919.

There were present Mr. Hart (in the chair) and 60 others.

Minutes of previous annual general meeting were read and confirmed. Office-bearers for ensuing session were elected.

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GENERAL MEETING ON JUNE 12, 1919.

Mr. Hart was in the chair, and there were 95 other members present.

Mr. Tivey, B.E., delivered a lecture on "Preliminary Considerations in Sub-station Design." A hearty vote of thanks was accorded the lecturer.

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SPECIAL MEETING ON JULY 24, 1919.

Mr. Hart was in the chair, and there were 99 others present.

A discussion took place on the advantages of the Society amalgamating with kindred Societies in the formation of the Institution of Engineers of Australia.

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GENERAL MEETING ON JULY 30, 1919.

There were present Mr. Hart (in the chair) and 60 other members.

Mr. Stafford read a paper on "Carburation of Aero Engines."

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