Minutes of Meeting

RESEARCH COUNCIL ON RIVETED & BOLTED STRUCTURAL JOINTS
New York City – January 15, 1947

1. ATTENDANCE

The meeting was called to order by W. M. Wilson about 10:00 a.m. with the following in attendance:

Raymond Archibald
B. A. Bakhtineff
J. L. Beckell (rep. E. S. Birkenwald)
E. H. Colpitts
E. E. Cress (rep. W. S. Lacher)
C. A. Ellis
H. C. Graham
T. R. Higgins
Jonathan Jones
H. H. Lind
N. M. Newmark
J. I. Parcel
G. H. Randall
P. C. Rutledge
W. C. Stewart
W. M. Wilson

Public Roads Administration
American Society of Civil Engineers
American Railway Engineering Association (Comm. 15)
Engineering Foundation
Association of American Railroads
Northwestern University
American Institute of Bolt, Nut & Rivet Manufacturers
American Institute of Steel Construction
American Institute of Steel Construction
American Institute of Bolt, Nut & Rivet Manufacturers
University of Illinois
American Society of Civil Engineers
Modjeski & Masters, Cons. Engr.
Northwestern University
American Institute of Bolt, Nut & Rivet Manufacturers
University of Illinois, American Society of Civil Engineers

(Note: Attached for information is tabulation of present sponsors and their accredited representatives)

2. CHAIRMAN

By nomination duly made, it was unanimously voted

THAT Mr. T. R. Higgins serve as Chairman of the Council

3. SECRETARY

The question of a secretary was discussed and it was felt that the Chairman might find it more practical to serve as his own secretary, though it would assist him if some member recorded the minutes of the meeting. This duty could be circulated among the members. Mr. Stewart was asked to record the minutes of the present meeting.
4. EXECUTIVE COMMITTEE

Upon motion duly made it was voted

THAT there be an Executive Committee of the Council consisting of 6 members including the Chairman of the Council

By nominations duly made, it was voted

THAT the Executive Committee consist of Messrs. Higgins (Chmn.), Archibald, Jones, Lind, Parcel and Wilson

5. FINANCES

Professor Wilson announced that commitments had been received in the amount of $23,500 with the prospect of early additional commitment of $5000 from one other organization. In discussing the manner of handling funds, Mr. Archibald stated that the policy of the Public Roads Administration would prohibit payment in advance into a general fund and that their commitment could be paid only to a University as reimbursement of expense already incurred. It was also recognized that regulations of certain other donors might restrict the use of funds to some particular University or project. It being the consensus that, so far as practical, all funds should be handled through a single fiscal agent, Mr. Arms of the Engineering Foundation (present for this discussion only) was asked if the Foundation would act in such capacity. Mr. Arms said that this would be acceptable. It was thereupon duly voted

THAT with the exception of donors who prefer specific relations with specific institutions, donors will deposit funds with the Engineering Foundation; the Engineering Foundation will release these funds to various institutions for particular projects on certification of the Chairman of the Council. The institution receiving such funds will make detailed accounting to the Council for all expenditures.

It was further the sense of the meeting that the Chairman should notify donors that the Engineering Foundation has been designated as fiscal agent for the handling of funds of the Council and that donors should deposit their contributions with the Foundation.

It was thereupon duly voted

THAT letters of agreement with the institutions for carrying out experimental work be made by the Engineering Foundation, upon the recommendation of the Council, except where individual donors prefer specific relations with specific institutions.
Further discussion indicated that the Universities would like to have letters stating that it is the intent to have work done there even before actual projects are assigned as it will help in preparations to receive the projects. It was the sense of the meeting that the Chairman of the Council should write such letters.

(Note: Such letters in the case of the University of Illinois should be addressed to Dean M. L. Enger, Engineering Hall, University of Illinois, Urbana, Illinois and in the case of Northwestern University to Dean C. W. Eshbach, Technological Institute, Evanston, Illinois.)

6. PROJECTS

While not the subject of a vote, it was the sense of the meeting that whenever a project is authorized, a Project Committee will be appointed to follow the project, pass on details, and render reports. In addition, several questions were discussed relative to project committees and their operation but it was the sense of the meeting that these should be included in by-laws to be drafted by the Executive Committee for submission to the Council.

Upon individual motions duly made, the following resolutions were voted:

THAT a Project Committee No. 1 be appointed to prepare a program to study the effect of varying bearing stress on the static and fatigue strength of cold and hot riveted joints and to include both specimens failing in the rivet and specimens failing in the plate

THAT a Project Committee No. 2 be appointed to prepare a program to study the static strength of various rivet patterns of bridge members, both hot and cold riveted

THAT a Project Committee No. 3 be appointed to prepare a program to study strength of rivets in shear and combined shear and tension

THAT a Project Committee No. 4 be appointed to prepare a program to study the fatigue strength of bolted connections with bolt tension as the variable

Upon nominations individually made for each position the following Project Committee chairmen were duly elected:

Project Committee No. 1 - Mr. Jones

Project Committee No. 2 - Prof. Wilson

Project Committee No. 3 - Mr. Higgins

Project Committee No. 4 - Mr. Stewart

Without limitation as to other individuals who may wish membership on the project committees, but with the thought that representative of each University should be on each, the committee memberships were arranged as follows:
Project Committee No. 1

Messrs. J. Jones (Chmn.) W. C. Stewart
R. Archibald Association of American Railroads
N. M. Newmark Northwestern University
T. C. Shedd

Project Committee No. 2

Messrs. W. M. Wilson (Chmn.) Association of American Railroads
E. F. Kelley Illinois Div. of Highways (Messrs.
J. I. Parcel Philbrook & Thomas)
A. T. Philbrook

Project Committee No. 3

Messrs. T. R. Higgins (Chmn.) W. C. Stewart
J. Jones Association of American Railroads
N. M. Newmark Northwestern University

Project Committee No. 4

Messrs. W. C. Stewart (Chmn.) Association of American Railroads
R. Archibald Northwestern University
W. M. Wilson

In discussion of projects it was pointed out that it would be valuable in avoiding duplication of work already done if the Project chairmen would review the literature on their particular project and possibly prepare an abstract. Reference also was made to a book "Bibliography on Riveted Joints" by deJonge, published in 1945 by the ASME which contains reference to all important papers on this subject with index and abstract of each.

A further question discussed was the extent to which the Council should assist in small projects such as might be instigated by students for theses and it was the sense that, if the subject were within the planned scope of the Council, assistance in the way of specimens could be given.

7. SPECIMENS FOR TEST

Means of obtaining specimens for test were discussed and it was felt that no trouble would be encountered in obtaining material for and fabrication of specimens. It was the assumption, therefore, that the Council's funds would be required only for experimental work done and not for specimens. Question of quality of material was discussed and it was felt that commercial material to ASTM A7 and A141 should be used but that wherever practical the history of the steel should be recorded.

8. PUBLICATION

Professor Wilson stated, and Mr. Rutledge concurred, that their Universities would want to publish experimental results and summary of data as University bulletins and would want to retain rights to any patents developed. After some discussion it was felt that this would not preclude the publication
by the Council of reports from either or both Universities which might be
condensations of the data together with interpretations and recommendations
of the Council.

9. MEMBERSHIP IN COUNCIL

Several questions arose relative to membership in Council but it was
considered that the By-Laws to be drafted by the Executive Committee would
clarify. It was thereupon duly voted

THAT the Executive Committee be empowered to
invite and accept additional sponsors

10. ADJOURNMENT

Those present then expressed their appreciation and special commenda-
tion to Prof. Wilson for his splendid efforts toward the organization of the
Council.

The Council thereupon adjourned about 6:00 p.m. subject to call.

Respectfully submitted

W. C. STEWART
Recorder pro temp

Approved: T. R. HIGGINS
Chairman

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<td>1. T.R. Higgins&lt;br&gt;Director of Engineering</td>
<td>American Institute of Steel Construction</td>
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<td>2. Jonathan Jones&lt;br&gt;Chief Engineer</td>
<td>Bethlehem Steel Company</td>
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<td><strong>AMERICAN INSTITUTE OF BOLT, NUT &amp; RIVET MANUFACTURERS</strong>&lt;br&gt;(Mr. H.H. Lind President)</td>
<td>1. H. C. Graham&lt;br&gt;Vice President</td>
<td>Pittsburgh Screw &amp; Bolt Corp.</td>
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<td><strong>PUBLIC ROADS ADMINISTRATION</strong>&lt;br&gt;(Mr. T.H. MacDonald Commissioner of Public Roads)</td>
<td>1. E.F. Kelley&lt;br&gt;Chief, Division of Physical Research</td>
<td>Public Roads Administration</td>
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<td>2. Raymond Archibald&lt;br&gt;Chief, Bridge Div.</td>
<td>Public Roads Administration</td>
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<td><strong>ILLINOIS STATE HIGHWAY DEPARTMENT</strong>&lt;br&gt;(Mr. W.W. Polk Chief, Highway Engineer)</td>
<td>1. L.E. Philbrook&lt;br&gt;Asst. Bridge Engineer</td>
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<td>2. A.L. Thomas Structural Designer</td>
<td>Division of Highways</td>
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<td>1. E.H. Colpitts&lt;br&gt;Director</td>
<td>Engineering Foundation Columbia University</td>
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<td>2. Dr. B.A. Bakhmeteff&lt;br&gt;Member of Board</td>
<td>Engineering Foundation Columbia University</td>
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<td><strong>AMERICAN SOCIETY OF CIVIL ENGINEERS</strong>&lt;br&gt;(Mr. H.N. Cerey Secretary)</td>
<td>1. J.I. Parcel&lt;br&gt;Consulting Engineer</td>
<td>Sverdrup &amp; Parcel</td>
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<td>2. W.M. Wilson Res. Prof. of Structural Engineering</td>
<td>University of Illinois</td>
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<td><strong>NORTHWESTERN UNIVERSITY</strong>&lt;br&gt;(Prof. G.A. Maney)</td>
<td>1. G.A. Maney, Chmn.&lt;br&gt;Civil Eng'g. Dept.</td>
<td>Northwestern University</td>
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<td>2. G.A. Ellis&lt;br&gt;Professor</td>
<td>Northwestern University</td>
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<td><strong>UNIVERSITY OF ILLINOIS</strong>&lt;br&gt;(Prof. W.M. Wilson)</td>
<td>1. W.M. Wilson&lt;br&gt;Research Prof.&lt;br&gt;Structural Eng'g.</td>
<td>University of Illinois</td>
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<td>2. T.C. Shedd, Prof.&lt;br&gt;Structural Eng'g.</td>
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