

Minutes of Meeting

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

W. H. MUNSE  
 111 Talbot Lab.  
 University of Illinois  
 Urbana, Illinois

1. ATTENDANCE

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

Raymond Archibald	Public Roads Administration
B. A. Bakhmeteff	American Society of Civil Engineers
J. L. Beckell (rep. E. S. Birkenwald)	American Railway Engineering Association (Comm. 15)
E. H. Colpitts	Engineering Foundation
E. E. Cress (rep. W. S. Lacher)	Association of American Railroads
C. A. Ellis	Northwestern University
H. C. Graham	American Institute of Bolt, Nut & Rivet Manufacturers
T. R. Higgins	American Institute of Steel Construction
Jonathan Jones	American Institute of Steel Construction
H. H. Lind	American Institute of Bolt, Nut & Rivet Manufacturers
N. M. Newmark	University of Illinois
J. I. Parcel	American Society of Civil Engineers
G. H. Randall	Modjeski & Masters, Cons. Engr.
P. C. Rutledge	Northwestern University
W. C. Stewart	American Institute of Bolt, Nut & Rivet Manufacturers
W. M. Wilson	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 O. 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:

*I Jones*

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.

*UP III.*

*II Wilson*

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

*UP III.*

*III Higgins*

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

*UP III.*

*IV Stewart*

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

*UP III.*

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

Project Committee No. 1	-	Mr. Jones
"	"	" 2 - Prof. Wilson
"	"	" 3 - Mr. Higgins
"	"	" 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	

*uuw*  
~~Shedd~~  
~~Newmark~~

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)
<del>A. T. Higgins</del>	Northwestern University
<i>L. E. Philbrook</i>	

Project Committee No. 3

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

*ll*

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 commendation 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 tem

Approved: T. R. HIGGINS  
Chairman

RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOINTS

<u>SPONSOR</u>	<u>REPRESENTATIVES OF SPONSORS</u>		<u>COMPANY CONNECTION</u>
	<u>Name &amp; Title</u>	<u>Address</u>	
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (Mr. R.T.Brooks Vice-President)	1. T.R.Higgins Director of Engineering	101 Park Ave. New York, N.Y.	American Institute of Steel Construction Bethlehem Steel Company
	2. Jonathan Jones Chief Engineer	701 E. Third St. Bethlehem, Pa.	
AMERICAN INSTITUTE OF BOLT, NUT & RIVET MANUFACTURERS (Mr. H.H.Lind President)	1. H. C. Graham Vice President	P.O.Box 1708 Pittsburgh 30, Pa.	Pittsburgh Screw & Bolt Corp. American Institute of Bolt, Nut & Rivet Mfrs.
	2. W.C.Stewart Technical Adviser	1550 Hanna Bldg. Cleveland 15, O.	
PUBLIC ROADS ADMINISTRATION (Mr. T.H.MacDonald Commissioner of Public Roads)	1. E.F.Kelley Chief, Division of Physical Research	Washington 25,D.C.	Public Roads Administration  Public Roads Administration
	2. Raymond Archibald Chief, Bridge Div.	Washington 25,D.C.	
ILLINOIS STATE HIGHWAY DEPARTMENT (Mr. W.W.Polk Chf.Highway Engineer)	1. L.E.Philbrook Asst. Bridge Engineer	503 Centennial Bldg. Springfield, Ill.	Division of Highways  Division of Highways
	2. A.L.Thomas Structural Designer	503 Centennial Bldg. Springfield, Ill.	
ENGINEERING FOUNDATION (Dr. E.H.Colpitts Director)	1. E.H.Colpitts Director	29 W. 39th St. New York 18,N.Y.	Engineering Foundation Columbia University
	2. Dr.B.A.Bakhteff Member of Board	250 W. 57th St. New York 19, N.Y.	
AMERICAN SOCIETY OF CIVIL ENGINEERS (Mr.W.N.Cerey Secretary)	1. J.I.Parcel Consulting Engineer	1118 Syndicate Trust Bldg. St. Louis 1, Mo.	Sverdrup & Parcel  University of Illinois
	2. W.M.Wilson Prof.of Structural Engineering	119 Talbot Lab. Urbana, Ill.	
NORTHWESTERN UNIVERSITY (Prof. G.A.Maney)	1. G.A.Maney, Chmn. Civil Eng'g. Dept.	Technological Inst. Evanston, Ill.	Northwestern University Northwestern University
	2. C.A.Ellis Professor	638 Garrett Place Evanston, Ill.	
UNIVERSITY OF ILLINOIS (Prof.W.M.Wilson)	1. W.M.Wilson Research Prof. Structural Eng'g.	119 Talbot Lab. Urbana, Ill.	University of Illinois  University of Illinois
	2. T.C.Shedd, Prof. Structural Eng'g.	306 Engineering Hall Urbana, Ill.	