The financial support of the National Science Foundation toward this meeting, thereby promoting international understanding and cooperation among scientists, is gratefully acknowledged.
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SCHEDULE

Tuesday—April 17, 1962
9:00 A.M. Meetings1: Council, Abstracts Commission, Data Commission
10:30 Intermission
11:00 Meetings: New Minerals and Mineral Names Commission, Teaching Commission
12:30 P.M. Luncheon
2:00 Meetings: Museums Commission; Ore Microscopy Group2: Second meeting of other Commissions
3:30 Intermission
4:00 Commission Meetings3 (continuation)
5:00 Welcoming Reception, Marriott Motor Hotel, Twin Bridges

Wednesday—April 18, 1962
9:00 A.M. Symposium on Layered Intrusions (Auditorium)
8:00 P.M. First Business Meeting: Reports of Officers, Reports of Committee Chairmen, Changes in the Constitution, New Business (Auditorium)

Thursday—April 19, 1962
9:00 A.M. General Session of Non-Symposium Papers (Auditorium)
7:00 P.M. IMA Banquet, Marriott Motor Hotel, Twin Bridges

Friday—April 20, 1962
9:00 A.M. Symposium on the Mineralogy of the Sulfides (Auditorium)
4:00 P.M. Second Business Meeting: Reports of Chairmen of Commissions, Voting (Auditorium)
7:30 Start of Southern Field Trip

FIELD TRIPS

Northern Field Trip, New York to Washington (Leader: Professor Paul F. Kerr)

April 14. Registration, American Museum of Natural History,

1 The locations of meeting places for small groups will be posted at the Information Desk.
2 Those interested in the possible formation of a Commission dealing with the problems of ore microscopy are invited to attend this meeting. Further information is available from your Representative or from Secretary Amorós.
3 Later meetings of the Commissions may be scheduled by their Chairmen for April 18–20. Since some countries may be represented by but one or two mineralogists, conflicts in meetings of the various Commissions should be avoided.
10:00 A.M. Visit the Columbia University Mineralogy Laboratory; the Lamont Geological Observatory; and the Palisades, New Jersey. Evening program: Mineral Occurrences of New Jersey. Alexander Hamilton Hotel, Paterson, N. J.


Southern Field Trip, Virginia (Leader: Professor R. V. Dietrich)

April 20. Leave Washington at 7:30 p.m. from in front of the U. S. National Museum. Overnight stop near Richmond, Va.

April 21. Amelia pegmatite; Willis Mountain kyanite deposit; Alta Vista cordierite-rich schist; and a pegmatite in the Moneta-Bells District.

April 22. Roseland rutile deposit; unakite occurrence; Cold Spring clay deposit; Kelly Bank manganese deposit; Lone Jack quarry; and Natural Bridge. Part of the Blue Ridge Parkway will be traversed.

April 23. Spottswood District bauxite deposit; a calcareous tufa deposit; and the Luray Caverns. Return to Washington about 6 p.m.

Note. Participants in each of the above two trips will be supplied with a detailed Guide Book.

Museum Trip, Washington to Cambridge (Leader: Professor Clifford Frondel)


VISITS TO WASHINGTON LABORATORIES

During the Washington meetings (April 17-20) there will be opportunities for small groups to visit the Geophysical Laboratory of the Carnegie Institution, the National Bureau of Standards, and the U. S. Geological Survey.

PROGRAM FOR LADIES

Arrangements will be made on an informal basis for trips around Washington to suit the wishes of visiting ladies.
SCHEDULE
WEDNESDAY—APRIL 18, 1962
Symposium on Layered Intrusions
C. E. Tilley, Chairman and Editor
H. H. Hess, Co-chairman

(After each paper 5 minutes is allowed for discussion)

1. C. E. Tilley: Introductory remarks

2. E. N. Cameron: Structure and rock sequences of the critical zone of the eastern Bushveld Complex

3. C. H. Smith and E. H. Kapp: The Muskox intrusion, a newly discovered layered intrusion in the Coppermine River area, N. W. Territories, Canada

4. E. D. Jackson: Stratigraphic and lateral variation of chromite compositions in the Stillwater complex

5. J. Ferguson and T. C. R. Pulvertaft: Contrasted styles of igneous layering in the Gardar province of S. Greenland

Intermission

6. C. H. Emeleus: Structural and petrographic observations on layered granites from S. W. Greenland

7. T. N. Irvine: Mineralogy and petrology of the ultramafic complex at Duke Island, S. E. Alaska

8. T. P. Thayer: Flow layering in alpine-type peridotite-gabbro complexes

9. R. H. Jahn and O. F. Tuttle: Layered pegmatite-aplite intrusions

Luncheon

10. L. R. Wager: The mechanism of deposition and solidification of the Skaergaard layered series, E. Greenland

11. P. R. J. Naidu: A layered complex in Sittampundi, Madras State, India

12. R. C. Speed: Layered picrite-anorthositic gabbro sheet, West Humboldt Range, Nevada

13. A. A. Loomis: Norite anorthosite bodies in the Sierra Nevada batholith

Intermission

14. H. E. Hunter: Layered basic intrusive rocks of the Wichita Mountains, S. W. Oklahoma

15. W. J. Wadsworth: The Kapalagulu layered intrusion of Western Tanganyika

16. B. M. Gunn: Differentiation in Ferror dolerites, Antarctica

17. H. G. Wilshire: Internal structure of a differentiated teschenite intrusion, Prospect Hill, New South Wales

First business meeting at 8:00

THURSDAY—APRIL 19, 1962
General Session of Non-symposium Papers
C. S. Huribut, Jr., Chairman and Editor
Philip H. Abelsohn, Co-chairman

(Each speaker should leave sufficient time for discussion)

2. Peter J. Wyllie: Liquidus and solidus paths in multicomponent systems and their effect on mineral zoning. 9:15
3. R. A. Howie: Cell parameters of orthopyroxenes. 9:30
4. David R. Wones and Daniel E. Appleman: Iron-ferrosilite polymorphs in the system K2O-FeO-Fe2O3-SiO2-H2O. 9:45
5. J. L. Jambor and Charles H. Smith: Accurate determination of olivine composition using standard small diameter x-ray powder camera. 10:00
6. Simone Caillère and François Kraut: Sur les constituants phosphates des minéraux de fer oolithiques de France. 10:15

Intermission

7. J. rimsaitė: Studies of rock-forming micas. 11:00
8. D. S. Coombs: Basalt relationships illustrated by the plagioclase-ferroan diopside-olivine-silica tetrahedron. 11:20
10. Allan F. Wilson: A new occurrence of sapphireine, and the significance of sapphireine in the granulite terrains of Western Australia. 11:50
11. Ichiro Sunagawa: Studies of crystal surfaces. 12:05

Luncheon

12. J. R. Hodkinson: Light extinction and scattering by suspensions of finely-divided minerals. 2:00
13. Horst Piller: Study of translucent tiny grains using the interference microscope. 2:15
14. Horace Winchell: Regressions of physical properties on chemical composition of amphiboles. 2:30
15. Keiichi Omori and Paul F. Kerr: Infrared study of sulfate minerals. 2:45
16. Edwin Roedder: The composition of quartz-forming fluids in nature. 3:00
17. J. Montoriol Pouis, A. San Miguel, and M. Font-Altaba: Spectrographic study of a Spanish fluorite deposit. 3:15

Intermission

18. J. V. Smith: Structural classification of zeolites. 4:00
19. G. Gottardi and W. M. Meier: The crystal structure of dachiardite. 4:15
20. C. T. Prewitt and M. J. Buerger: A comparison of the crystal structures of wollastonite and pectolite. 4:30
22. Malcolm Ross and Howard T. Evans, Jr.: The crystal structures and crystal chemistry of various members of the melatobernite group. 5:10

PAPERS BY TITLE

24. Subhata Ghose: The crystal structure of pseudomalachite.

FRIDAY—APRIL 20, 1962
Symposium on the Mineralogy of the Sulfides
A. J. Frueh, Chairman and Editor
Paul Ramdohr, Co-chairman
1. Wayne W. Scanlon: (Invited sessional lecture) The physical properties of semi-conducting sulfides, selenides and tellurides 9:00
2. Mead L. Jensen: Sulfur isotope mineralogy of sulfides
3. Jean Prouvost: Quelques aspects des déplacements atomiques dans les sulfures métalliques
4. Nobuo Morimoto: On the transition of bornite
5. B. J. Wuensch and M. J. Buerger: The crystal structure of pyrrhotite, Fe₇S₈
6. Priestley Toulmin, 3rd, and Paul B. Barton, Jr.: Thermodynamic study of pyrrhotite and pyrite

Luncheon

7. B. J. Wuensch and M. J. Buerger: The crystal structure of chalcocite, Cu₂S
9. Philip M. Bethke, Paul B. Barton, Jr., and Priestley Toulmin, 3rd: Equilibrium in sulfide deposits, II—Natural assemblages
10. M. Font-Altaba: Study of distorted pyrite crystals from Fuente Valoria (Soria, Spain)
11. Farouk El Baz and G. C. Amstutz: A statistical study of bravoite zoning