Synopsis of Itinerary

Wednesday evening, May 29th.
Assemble at Newton. Registration at Cochran House.

Lv. Thursday, May 30th.
Cochran House at 8:00 A.M. 8:00 A.M.

Stop 1. Via State Highway S-31 and Sunrise
Mountain Road in Stokes State Forest
to Shelter House on top of Kittatinny
Mountain. Basal Silurian Quartzite
and Physiography.
Loader: M.E. Johnson and H. Woodward
Ar. 8:50 A.M.
Lv. 9:20 A.M.

Stop 2. Via North Shore Road to north of
Boомorville. Libertyville Volcanic
plug.
Loader: A.F. Buddington and H.H. Hess
Ar. 9:45 A.M.
Lv. 10:15 A.M.

Stop 3. Libertyville, Sussex and Hamburg. Turn
left at Hamburg to McAfoo and left
fork to quarry.
McAfoo Quarry in Franklin limestone,
Metamorphism; mineral hunting.
Loader: E. Sampson, A.F. Buddington
and H.H. Hess
Ar. 10:50 A.M.
Lv. 12:30

Stop 4. Return via Hamburg and straight through
to road cut 1 mile west. Kittatinny
limestone, Cotelos Cryptozoan, etc.
Loader: H. Woodward
Ar. 12:45 P.M.
Lv. 1:15 P.M.

Stop 5. Continue on same road 1-1/2 miles to
North Church Delta. Brief stop for
Glacial Geology.
Loader: M.E. Johnson
Ar. 1:25 P.M.
Lv. 1:55 P.M.

Stop 6. Via Franklin and Route 23 to top of
Hamburg Mountain. Pre-Cambrian Gneiss
complex.
Loader: E. Sampson and A.F. Buddington
Ar. 2:15 P.M.
Lv. 2:35 P.M.

Stop 7. Via Route 23 to Newfoundland. Turn
right on Rockaway Road and south to
southeast face of Copperas Mountain,
Green Pond (Silurian) Conglomerate
overlying Pre-Cambrian Gneiss,
Interesting mineral locality.
Loader: Bradford Willard and E. Sampson
Lv. 4:00 P.M.

Return to Newton via Now Russia and Sparta.

Dinner between 6:00 and 8:00 P.M.
Explanation of Geology of Franklin and Ogdensburg deposits by Allen Pinger, Geologist, New Jersey Zinc Company.

Brief explanation by Paul MacClintock of Alternate trip on May 31st to Study Physiography, Glaciation and Soils.

Friday, May 31st. Group I.

Economic Geology and Mineralogy trip.

Lv. Cochran House, Newton at 8:30 A.M. 8:30 A.M.

Stop 1. Via Sparta and Ogdensburg to New Jersey Zinc Company office at Franklin. Party will divide into three groups lead by Geologists of Company to
   (1) Inspect Minerals
   (2) See Contact of Cambrian Qtzite in Pro-Cambrian Gneiss
   (3) Inspect open cut.

Buffet lunch 12:00-12:45

Stop 2. Via Sparta and Woodport to Bershing Valley. Turn right and follow road south to Route 46. Sharp left and 3/4 mile further turn left to Scrub Oak mine, Alan Wood Steel Company. Trip through mill to see modern magnetic and gravity separation of magnetite and martite 30% ore.
   Leaders: M.E. Johnson and Company Staff

Lv. 2:45 P.M.

   Leader: A.O. Hayes

Lv. 4:00 P.M.

Via tarred road south and southwest to Chester. Left on Route 31 and south to Route 29 and east to Plainfield.

Park Hotel on West 7th Street

Annual Meeting - Park Hotel 8:00 P.M.

Friday, May 31st. Group II.

Physiography, Glaciation and Soils.

Lv. Newton at 8:00 A.M. 8:00 A.M.
Stop 1. Route 206 to Branchville thence northeast to Beomorville. Beomorville soil conservation experiment station.  
Ar.  8:30 A.M.  
Lv.  10:30 A.M.

Stop 2. Route 206 to Newton and 31 south three miles. Three miles south of Newton on Route 31. Fox soil on glacial outwash. 
Ar.  11:00 A.M.  
Lv.  11:30 A.M.

Stop 3. Continue south on Route 31 to Netcong turn right on Route 6. Note terminal moraine. 2 Miles west Budd Lake on top of type locality of the Schooley peneplain. Illinoian till, Washington soil. (Including 30 minutes for lunch in the field).  
Lv.  1:30 P.M.

Ar.  2:00 P.M.  
Lv.  2:30 P.M.

Stop 5. Continue on Route 6 almost to Buttzville. Buttzville, 1/2 mile east. Cut of fresh Wisconsin till.  
Lv.  3:00 P.M.

Lv.  3:30 P.M.

Stop 7. Continue south on Route 30 almost to Clinton point. Clinton Point, 1/2 mile North Hagerstown soil on Beekmantown limestone.  
Lv.  4:00 P.M.

Stop 8. Continue south on Route 30 at 3 miles south. Note the Berks soil on Martinsburg Shale, 3 miles north of Flemington. Penn soil on Brunswick shale.  
Lv.  4:30 P.M.

Lv.  5:00 P.M.

Stop 10. Back to Flemington, northeast through Flemington Junction to Whitehouse, thence east on Route 28 (U.S.22) almost to North Branch. 2 miles west to North Branch. Somorville Peneplain, Kansan till, Washington soil  
Lv.  5:30 P.M.

Continue east on Route 29 to Plainfield.  
Annual Meeting at Park Hotel  8:00 P.M.
Saturday, June 1st.

Geology of the Coastal Plain.
Leaders: A.O. Hayes, E. Dorf and H. Johnson

Lv. Park Hotel at 8:00 A.M.

Stop 1. Via 7th Street to Dunellen and New Market, then turn left to Stolton and Piscataway, then left crossing Mill Brook to top of hill. Unconformity between Triassic and Cretaceous.

Lv. 9:00 A.M.

Stop 2. Via Nixon and Perth Amboy to Route 4 and south across Raritan River to Route 35 and left on Route 35 to Cliffwood. Left to Cliffwood Beach. Magothy formation overlain by Merchantville Clay. Pyrite, Lignite and Fossils.

Lv. 10:30 A.M.

Stop 3. Return to Route 35, turn left and south-east 2 miles to Hazlett Road. Turn right and south 2 miles to top of Boers Hill, Hornorstown, Tinton and Red Bank formations. Fossils.

Lv. 12:00

Stop 4. Follow same road 1/2 mile south to Crawford's Corner, Navesink formation. Fossils.

Lv. 12:40 P.M.

Stop 5. Take first turn left to Middletown and straight through to Chapel Hill, Navesink and Route 36 to Sonic Highway, Monmouth County, Route 8. Turn left to top of Hill and Log Cabin Inn.

Lunch — $.75

Alternative trips to Sandy Hook and near-by exposures of Cretaceous and Tertiary formations will be outlined after lunch.

Note: A brief outline of the Geology of New Jersey will be given to all registrants. A small registration fee will be charged.

Moredith E. Johnson, Chairman, Local Committee.

Helgi Johnson, Secretary, Local Committee, Rutgers University, New Brunswick, N. J.