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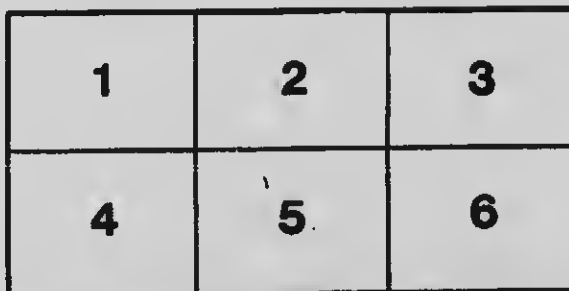
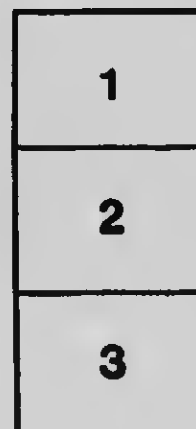
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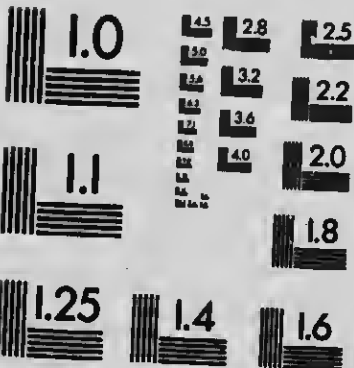
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INTERNATIONAL GEOLOGICAL CONGRESS.

TWELFTH SESSION, CANADA, 1913.

VICTORIA MEMORIAL MUSEUM,

OTTAWA.

June 7, 1913,

List of Leaders, Secretaries and Guides.

The following list of Leaders, Secretaries and Guides is believed to be correct to date but is subject to alteration.

Suggestions for any corrections and additions should be sent at the earliest possible moment to the Secretary, Twelfth International Geological Congress, Victoria Memorial Museum, Ottawa.

NOTE—A guide occupies an official position only over that portion of the route assigned to him. During the preceding and subsequent portions of the Excursion he becomes an ordinary member.

| | | |
|--------------------------------------|---------------------------|-------------------------------------|
| F. D. Adams...A2, A7, C1 | J. W. Goldthweit, A1, A10 | J. E. NarrowayA11 |
| J. A. Allen.....C1 | J. C. GwillimC1, C2 | T. NettresC5 |
| J. A. Bancroft...A1, A6, A7 | R. C. GulmentA7 | W. NicolA9 |
| L. W. BellayA1 | E. HeycockA1 | W. A. Perks, A12, B3, B4, B7, C5 |
| M. B. BakerA9, B9 | R. HervieA1, A5 | A. L. PersonsC1 |
| A. E. BarlowA2, C1 | H. E. T. Heultain.....C2 | E. PeitavlnA9 |
| W. A. BellA1 | A. G. HeyesA1 | P. QuenselA1, C1 |
| W. R. Billings...A11 | P. E. HopkinsA3 | W. R. RogersA3 |
| R. W. Brock...C2, C8, C9 | J. O. S. HudsonA1 | P. E. Reymond...A1, A11 |
| L. D. BurlingA1, C1 | J. E. HydeA1 | H. S. de Schmid...A9 |
| A. G. Burrows...A3, C2 | E. D. IngellA11 | S. J. ScheffeldC2 |
| D. D. Cairnes...C8, C9 | R. A. A. Jahnsten...A8 | J. Stanefield...A8, B7 |
| C. CamsellC2 | W. A. Jahnsten...A11, B9 | C. R. Stauffer...A12, C5 |
| C. H. ClappC1, C2 | J. KaelsA10, B8 | J. SterlingC2 |
| J. M. ClarkeA1 | E. M. KindleA1, C1 | W. J. SuttanC1, C2 |
| A. A. CoisA3, C8 | S. KirkpatrickA9 | F. B. Taylor, A4, B1, B5, B9, C5 |
| A. P. Coleman, A3, A4, B1, B2, C1 | C. W. Knight, A3, A8, C2 | W. H. Twenhofel...A1 |
| E. T. CorkillA3, C9 | L. M. LembeA1, C1 | J. W. TyrrellA4 |
| W. H. Collins, A3, C1, C2 | A. C. LeweenC1 | J. B. TyrrellA3, C1 |
| R. A. DalyC1 | W. W. Leach...C2, C8, C9 | W. L. UgiowC1 |
| T. C. DenieA5, C2 | G. E. LeRoyC2 | J. H. Velliquatte...A5 |
| W. J. DickA1, C2 | E. LindamenA3, C9 | C. D. WalcottC1 |
| D. B. Dowling...C2 | G. G. S. Lindsay, B5, C2 | T. L. WelkerA3, C5 |
| J. A. Dresser...A, A5 | R. G. McConnell, C8, C9 | R. A. WelleceC1 |
| C. W. Drysdale...C2 | J. McEveyC2 | W. S. WernerA7 |
| A. G. Dufreane...A7 | D. McIntoshA1 | E. J. Whitaker...A11, C5 |
| E. DullauxA8 | G. C. Mackenzie...A3, A9 | M. Y. Willems...A1, A12, C5 |
| H. V. Ellsworth, A12, B3, C8 | J. D. Meckenzie...C1, C2 | Mica A. E. Wilson...B2 |
| E. R. Faribault...A1 | A. MacLeanC1 | A. W. G. Wilson...C2 |
| G. S. FinnisC2 | J. McLalenC1 | M. E. Wilson, A3, A9, C2, C1 |
| A. F. Foerste...C8 | W. H. McNairn...A12 | W. J. WilsonA11 |
| A. J. Galbreith...C5 | A. MailhotA1, A5 | W. J. WrightA1 |
| R. P. D. Graham...A 6, A7 | L. MerlinC8 | G. A. YoungA1, A7 |
| T. GrghamC2 | G. F. MatthewA1 | |
| | G. R. MickleA3 | |
| | W. G. MillerA5, C8 | |

051
26
1932

A1. Quebec and Maritime Provinces. Time, 19 days.

Sunday, July 13. Leave Montreal in evening.
Friday, August 1. Arrive in Ottawa in early morning.
Cost—Tourist, \$130.00, Standard \$150.00, Deposit \$14.00.
Leader—G. A. Young.

Associate Leaders—J. M. Clarke, E. R. Farlbault.
Secretary—R. Harvie.

Assistant Secretary—A. Mailhot.

Guides as follows:

| Name | Place | Date |
|------------------|-------------------------------|---------------------|
| L. W. Bailey | Moncton and St. John | July 19th-30th |
| J. A. Bancroft | All | |
| W. A. Bell | Windsor to Moncton | July 21st-29th. |
| L. D. Burling | All | |
| J. M. Clarke | Gaspé and Head of Chaleur Bay | July 18th-19th. |
| W. J. Dick | Pictou, Sydney | July 23rd-24th. |
| A. O. Hayes | St. John | July 30th. |
| E. R. Farlbault | All | |
| J. W. Goldthwait | All | |
| E. Haycock | Halifax to St. John | July 20th-30th. |
| J. G. S. Hudson | Sydney, Pictou | July 23rd-24th. |
| J. E. Hyde | Riversdale-Union, Sydney | July 22nd-25th. |
| E. M. Kindle | All | |
| L. M. Lambe | Dalhousie, Albert Mines | July 19th-29th. |
| E. Lindeman | Bathurst | July 19th. |
| G. F. Matthew | St. John, Sydney | July 23rd-25th-30th |
| D. McIntosh | Halifax, Oldham or Horton | July 20th-21st. |
| P. Quensei | All | |
| P. E. Raymond | All | |
| W. H. Twenhofel | All | |
| W. J. Wright | Oldham, Moncton | July 21st-29th. |

A2. Haliburton-Bancroft (Ontario). Time, 7 days.

Thursday, July 24. Leave Montreal in evening.
Thursday, July 31. Arrive in Ottawa in late afternoon.

Leader—F. D. Adams.
Associate Leader—A. E. Barlow.

Secretary—G. C. Mackenzie.

Cost—\$30.00. Deposit, \$3.00.

Guides—None.

A3. Sudbury-Cobalt-Porcupine (Ontario). Time, 10 days.

Wednesday, July 23. Leave Montreal in morning, or leave Toronto in evening.

Saturday, August 2. Montreal.

Cost—Tourist, \$65.00, Standard, \$75.00. Deposit, \$7.00.

Leader—W. G. Miller.

Secretary—W. R. Rogers.

Guides as follows:

| Name | Place | Date |
|---------------|--------------------------------------|-----------------|
| A. G. Burrows | Timagami, Cobalt, Porcupine | July 28th-31st. |
| A. A. Cole | Timagami, Cobalt, Porcupine | July 28th-31st. |
| A. P. Coleman | Sudbury, Moose Mountain | July 24th-26th. |
| E. T. Corkill | Sudbury, Timagami, Cobalt, Porcupine | July 24th-31st. |
| W. H. Collins | All | |
| J. A. Dresser | Sudbury | July 24th-25th. |
| P. E. Hopkins | Timagami, Cobalt, Porcupine | July 28th-31st. |
| C. W. Knight | Timagami, Cobalt, Porcupine | July 28th-31st. |
| E. Lindeman | Moose Mountain | July 26th. |
| G. R. Mickle | Sudbury | July 24th-25th. |
| J. B. Tyrrell | All | |
| T. L. Walker | Sudbury | July 24th-25th. |
| M. E. Wilson | All | |

A4. Niagara-Iroquois Beach (Ontario). Time, 3 days.

Monday, August 4. Leave Toronto in morning.
Wednesday, August 6. Arrive Toronto in evening.

Cost—\$20.00. Deposit, \$5.00.

Leader—A. P. Coleman.

Associate Leader—F. B. Taylor.

Secretary—W. R. Rogers.

Guides as follows:

| Name | Place | Date |
|---------------|----------|-------|
| J. W. Tyrrell | Hamilton | ----- |
| W. H. McNairn | All | ----- |

A5. Asbestos Deposits of the Province of Quebec. Time, 4 days.

Saturday, August 2. Leave Montreal in evening.

Thursday, August 7. Arrive in Toronto in morning.

Cost—\$40.00, including ticket and sleeping car berth in Toronto.

Leader—T. C. Denis.

Associate Leader—J. A. Dresser.

Secretary—H. Frechette.

Guides as follows:

| Name | Place | Date |
|------------|-------|-------|
| H. Harvia | ----- | ----- |
| A. Malhiot | ----- | ----- |

A6. Morin Anorthosite Area (Province of Quebec). Time, 1 day.

Monday, August 4. Leave Montreal in morning and return in evening.

Cost—\$5.00. No deposit.

Leader—J. A. Bancroft.

Secretary—J. H. Valliquette.

Guide—R. P. D. Graham.

A7. The Monteregian Hills (Quebec). Time, 2 days.

Tuesday, August 5. Leave Montreal in morning.

Thursday, August 7. Arrive in Toronto in morning.

Cost—\$18.00, including ticket and berth in sleeping car to Toronto, but not including hotel or other accommodation in Montreal on Tuesday night. Deposit \$2.00.

Leader—F. D. Adams.

Secretary—W. S. Werner.

Guides—J. A. Bancroft, A. O. Dufreene, R. P. D. Graham, R. C. Guilmont, G. A. Young.

A8. Mineral Deposits of the Ottawa District. Time, 3 days.

Monday, August 4. Leave Montreal in morning.

Thursday, August 7. Arrive Toronto in morning.

Cost—\$22.00, including ticket and berth in sleeping car to Toronto.

Deposit, \$5.00.

Leader—J. Stansfield.

Secretary—M. E. Wilson.

Guides—E. Dulleux, H. S. DeSchmid, R. A. A. Johnston, C. W. Knight, E. Poltevin.

A9. Mineral Deposits Near Kingston (Ontario). Time, 3 days.

Monday, August 4. Leave Kingston in morning.

Wednesday, August 6. Arrive in Toronto in afternoon.

Cost—\$20.00, including hotel Tuesday night at Kingston. Deposit, \$5.00.

Leader—W. Nicol.

Associate Leader—M. B. Baker.

Secretary—S. Kirkpatrick.

Guide—G. C. Mackenzie.

A10. Pleistocene—Montreal and Ottawa. Time, 3 days.

Monday, August 4. Leave Montreal in the morning.
Thursday, August 7. Arrive in Toronto in morning.

Cost—\$20.00. Deposit, \$5.00.

Leader—J. W. Goldthwait.

Secretary—L. H. Cole.

Guides—J. Keele, W. A. Johnston.

A11. Ordovician—Montreal and Ottawa. Time, 3 days.

Monday, August 4. Leave Montreal in morning.

Thursday, August 7. Arrive in Toronto in morning.

Cost—\$22.00. Deposit, \$5.00.

Leader—P. E. Raymond.

Secretary—E. D. Ingaill.

Guides—L. D. Burling, E. M. Kindle, W. R. Billings, J. E. Narraway.

A12. Southwestern Ontario. Time, 3 days.

Monday, August 4. Leave Toronto in morning.

Wednesday, August 6. Arrive in Toronto in evening.

Cost—\$23.00. Deposit, \$5.00.

Leader—W. A. Parks.

Secretary—W. Harvey McNairn.

Guides—C. R. Stauffer, H. V. Ellsworth, M. Y. Williams.

"B" EXCURSIONS—August 7th-14th.

Guides as follows:

- B1. A. P. Coleman, F. B. Taylor.
- B2. A. P. Coleman.
- B3. W. A. Parks, H. V. Ellsworth, Miss A. E. Wilson.
- B4. W. A. Parks, J. Stansfield, H. V. Ellsworth.
- B5. F. B. Taylor.
- B6. G. G. S. Lindsey.
- B7. W. A. Parks, J. Stansfield, H. V. Ellsworth.
- B8. M. B. Baker, J. Keele.
- B9. W. A. Johnston, F. B. Taylor, J. W. Goldthwait.
- B10. C. W. Knight, J. A. Bancroft, W. G. Miller.

C1. Transcontinental via Canadian Pacific Railway and Canadian Northern Railway. Time, 23 days.

Thursday, August 14. Leave Toronto in evening.
 Saturday, September 6. Arrive Toronto in evening.
 Coat—Tourist, \$200.00; Standard, \$223.00. Deposit, \$20.00.
 Leader—F. D. Adams.
 Associate Leader—J. B. Tyrrell.
 Secretary—J. McLeish.
 Assistant Secretary—H. S. DeSchmid.
 Guides as follows:

| Names | Places | Date |
|-----------------|---|---------------------|
| J. A. Allan | Calgary, to Kamloops | Aug. 20th-25th. |
| A. E. Barlow | Coldwell, Banff to Golden | Aug. 15th-20th-23rd |
| L. D. Burling | Field | Aug. 22nd. |
| C. H. Clapp | Victoria | Aug. 26th-27th. |
| A. P. Coleman | Sudbury | Sept. 5th. |
| W. H. Collins | Iron Spur to Fort Frances | Aug. 16th-17th. |
| H. A. Daly | Banff to Vancouver | Aug. 20th-25th. |
| J. C. Gwillim | Calgary | Aug. 30th. |
| W. A. Johnston | Fort Frances to Winnipeg | Aug. 17th. |
| E. M. Kindle | Stonewall, Stoney Mountain, Snake Island | Aug. 18th-Sept. 1st |
| L. M. Lambs | | |
| A. C. Lawson | Iron Spur to Fort Frances | Aug. 16th-17th. |
| A. MacLean | Ethelbert, Pine River, Stoney Mountain | Aug. 18th-Sept. 1st |
| R. G. McConnell | Banff to Golden | Aug. 20th-23rd. |
| A. H. Parsons | Kenora, Port Arthur, Loon Lake | Sept. 2nd-3rd. |
| P. Quensel | | |
| W. J. Sutton | Victoria | Aug. 26th-27th. |
| W. L. Uglow | Iron Spur to Fort Frances | Aug. 16th-17th. |
| C. D. Walcott | Field | Aug. 22nd. |
| B. A. Wallace | Iron Spur to Fort Frances, Stoney Mountain, Stonewall | Aug. 16-18th. |
| M. E. Wilson | Iron Spur to Fort Frances | Aug. 16th, 17th. |

**C2 Transcontinental via Canadian Pacific Railway, Grand Trunk Pacific Railway, and National Transcontinental Railway.
Time, 23 days.**

Thursday, August 14. Leave Toronto in evening.
Saturday, September 6. Arrive in Toronto in morning.
Cost—Tourist, \$200.00; Standard, \$223.00. Deposit \$20.00.
Leader—R. W. Brock.
Associate Leader—J. McEvoy.
Secretary—H. E. T. Haultain.
Assistant Secretary—H. Frechette.
Guides, as follows:

| Name | Place | Date |
|------------------|--|---------------------|
| J. A. Allan | Glacier to Mount Robson | Aug. 28th-31st. |
| A. G. Burrows | Nipigon to Cochrane, Porcupine, Cobalt | Sept. 3rd-5th. |
| C. Camsell | Phoenix to Victoria | Aug. 21st-28th. |
| C. H. Clapp | Victoria | Aug. 25th-26th. |
| W. H. Collins | Winnipeg to Nipigon | Sept. 2nd-3rd. |
| T. C. Denis | | |
| W. J. Dick | Hillcrest to Fernie, Nanaimo | Aug. 18th-19th-25th |
| D. B. Dowling | Winnipeg to Fernie, Calgary to Edmonton, Mt. Robson to Winnipeg | Aug. 18th-20th. |
| C. W. Drysdale | Itassland, Phoenix, Kamloops to Savona | Aug. 21st-24th. |
| O. S. Finnie | Hillcrest to Fernie | Aug. 18th-19th. |
| T. Graham | Corbin, Fernie, Nanaimo | Aug. 18-19-25th. |
| J. C. Gwillim | Hillcrest to Elko, Corbin | Aug. 18th-19th. |
| C. W. Knight | Porcupine, Cobalt | Sept. 4th-5th. |
| W. W. Leach | Hillcrest to Elko, Corbin | Aug. 18th-19th. |
| G. E. LeRoy | Slocan, Kootenay Landing to Phoenix | Aug. 20th-26th. |
| G. G. S. Lindsey | | |
| J. D. Mackenzie | Nanaimo | Aug. 25th. |
| A. MacLean | Stoney Mountain | Aug. 18th. |
| H. Ries | | |
| S. J. Schofield | Elko to Kootenay Landing | Aug. 20th. |
| J. Sterling | Medicine Hat to Coleman, Edmonton | Aug. 17-18-19th. |
| W. J. Sutton | Victoria | Aug. 25th-26th. |
| C. D. Walcott | Mt. Robson Station and vicinity | Aug. 30th-31st. |
| R. A. Wallace | Stoney Mountain | Aug. 16th. |
| A. W. G. Wilson | Phoenix | Aug. 21st. |
| M. E. Wilson | Porcupine, Cobalt | Sept. 4th-5th. |

C5. Lake Erie and Huron. Time, 13 days.

Friday, August 15. Leave Toronto in morning.

Thursday, August 26. Return to Toronto in evening

Cost—\$125.00. Deposit, \$12.00.

Leader—W. A. Parks.

Associate Leader—T. J. Walker.

Secretary—A. J. Galbraith.

Guide, as follows:

| Name | Place | Date |
|-------------------------------|--------------------------------|---------------------------|
| A. F. Foerste | Manitoulin Island (Ordovician) | Aug. 22nd-26th. |
| M. Y. Williams | Manitoulin Island (Silurian) | Thedford-Aug. 20-22-26th. |
| H. V. Ellsworth | | |
| F. B. Taylor and assistant | Niagara | Aug. 15th. |

C5. Sudbury-Cobalt-Porcupina (Ontario). Time, 9 days.

Friday night, August 15th. Leave Toronto.

Sunday morning, August 24th. Arrive in Toronto.

Cost—Tourist, \$58.00; Standard, \$67.00. Deposit, \$6.00.

Leader—W. G. Miller.

Secretary—P. E. Hopkins.

Guide, as follows:

| Name | Place | Date |
|-----------------|-----------------------------|-------|
| A. G. Burrows | Timagami, Cobalt, Porcupine | ----- |
| A. A. Cole | Timagami, Cobalt, Porcupine | ----- |
| E. T. Corkhill | Sudbury, Cobalt, Porcupine | ----- |
| J. A. Dresser | Sudbury | ----- |
| C. W. Knight | Sudbury, Cobalt, Porcupine | ----- |
| E. Lindeman | Moose Mountain | ----- |
| G. C. MacKenzie | Moose Mountain | ----- |

C8. Yukon and Malaspina. Time, 25 days.

And

C9. Prince Rupert and Skeena River (British Columbia). Time, 7 days.

Wednesday, August 27. Leave Vancouver by boat.

Tuesday, September 2. Arrive at Vancouver

Cost—C8.—\$350.00. Deposit, \$40.00.

C9. \$100.00. Deposit, \$10.00.

Leader—R. G. McConnell.

Secretary—

Assistant Secretary—

Guide, as follows:

| Name | Place | Date |
|-----------------|----------------------|-------|
| R. W. Brock | | ----- |
| D. D. Cairnes | Whitehorse to Dawson | ----- |
| W. A. Johnston | | ----- |
| W. W. Leach | Hazelton | ----- |
| L. Martin | Skagway to Yakutat | ----- |
| W. F. Robertson | Hazelton | ----- |

