



**(ISECT 2017)**

15 - 29<sup>th</sup> June 2017, Newfoundland, Canada

Organized under the support of:

The International Subcommittee on Ediacaran Stratigraphy (ISES)  
The International Subcommittee on Cambrian Stratigraphy (ISCS)

## **SECOND CIRCULAR**



Ediacaran macrofossils at Mistaken Point Ecological Reserve, Newfoundland.

The Organizing Committee are pleased to invite you to participate in the 2017 International Symposium on the Ediacaran-Cambrian Transition, in St. John's, Newfoundland, Canada.

## Goals of the meeting

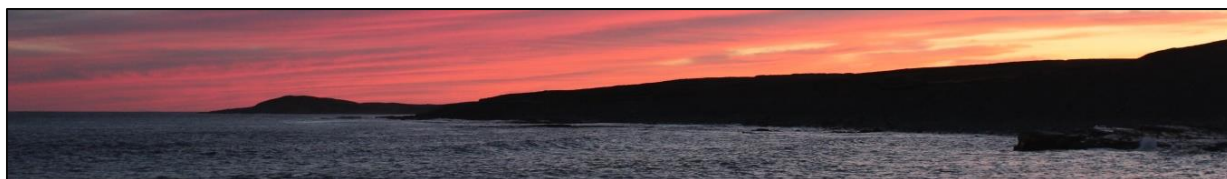
The International Symposium on the Ediacaran-Cambrian Transition (ISECT 2017) will provide a forum for the discussion of the geological, geochemical and palaeontological findings of relevance to Ediacaran and Cambrian stratigraphy, and offers an opportunity for Ediacaran and Cambrian researchers to visit several classic field localities in Newfoundland, eastern Canada.

A full two-day conference programme will cover all aspects of Ediacaran and Cambrian geobiology, and will be sandwiched between field excursions to sites including: the classic Ediacaran localities of the Mistaken Point Ecological Reserve; recently discovered Ediacaran localities at Spaniard's Bay and the Catalina Dome; the Ediacaran-Cambrian boundary stratotype sections around the Burin Peninsula; and the Cambrian and Ordovician sections of the western coast of Newfoundland.

The meeting will be conducted with the support of the International Subcommissions on Cambrian and Ediacaran Stratigraphy, and serves as the 2017 Field Meeting of the Cambrian Subcommission. Time will be available for Subcommission technical and business meetings. Topics for discussion will include the subdivision of the Ediacaran System (including the suitability of the Gaskiers glaciation event as a Stage boundary), and the utility of the criteria by which the Ediacaran-Cambrian boundary is globally recognized.

ISECT 2017 will also celebrate the 50<sup>th</sup> anniversary of the discovery of Ediacaran macrofossils at Mistaken Point (SE Newfoundland), as well as the July 2016 inscription of Mistaken Point Ecological Reserve as a UNESCO World Heritage Site. Global research into Ediacaran and Cambrian paleobiology will figure prominently in the dedicated meeting symposia, and delegates will have the opportunity to visit the remarkable Mistaken Point site, one of the most spectacular of all Ediacaran fossil localities, as well as excellent Ediacaran sections in the Spaniard's Bay and Bonavista regions.

The Organizing Committee would like to invite all researchers with an interest in the stratigraphy, sedimentology, geochemistry and palaeobiology of the Ediacaran and Cambrian Systems to participate in the ISECT 2017 meeting in St. John's.



## Meeting schedule

17<sup>th</sup> – 20<sup>th</sup> June 2017: Field Trip 1, Ediacaran sections of the Avalon Peninsula

15<sup>th</sup> – 20<sup>th</sup> June 2017: Field Trip 2, Cambrian sections of Western Newfoundland

20<sup>th</sup> June 2017: Evening icebreaker reception, INCO Innovation Centre, Memorial University of Newfoundland, St. John's, Newfoundland

21<sup>st</sup> June 2017: ISECT NL2017 scientific sessions, Memorial University

Keynote Lecture, Professor Andrew H. Knoll

22<sup>nd</sup> June 2017: ISECT NL2017 scientific sessions, Memorial University

Conference dinner

23<sup>rd</sup> – 27<sup>th</sup> June 2017: Field Trip 3: Ediacaran sections of the Bonavista Peninsula

23<sup>rd</sup> – 29<sup>th</sup> June 2017: Field Trip 4: Ediacaran–Cambrian of the Burin and Avalon

23<sup>rd</sup> June 2017: Field Trip 5: Single day trip to Mistaken Point Ecological Reserve

## Organizing and Scientific Committee

Dr Alex Liu (Chair)	University of Cambridge, UK
Professor Guy Narbonne	Queens University, Canada
Professor Duncan McIlroy	Memorial University of Newfoundland, Canada
Dr Marc Laflamme	University of Toronto Mississauga, Canada
Professor Ed Landing	New York State Museum
Dr Jack Matthews	Memorial University of Newfoundland, Canada
Dr Latha Menon	University of Oxford, UK

### *Additional field trip leaders*

Dr Luis Buatois	University of Saskatchewan
Dr Gabriela Mángano	University of Saskatchewan
Professor Gabriela Bagnoli	Università di Pisa
Professor Svend Stouge	University of Copenhagen

### *Keynote speaker* (St. John's, 21<sup>st</sup> June 2017)

Professor Andrew H. Knoll	Harvard University
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## Host city

St. John's, the capital of Newfoundland and Labrador, is a vibrant, picturesque city located on the spectacular eastern coast of Newfoundland, Canada. Renowned for its warm hospitality, colourful houses, and interesting history, St. John's offers a wealth of attractions and opportunities for visitors.

Highlights of the city include The Rooms Provincial Museum and Art Gallery; Cabot Tower on Signal Hill; and for the geologically-inclined, the Johnson Geocentre - Newfoundland and Labrador's very own geological interpretation centre. By night, the focus shifts to entertainment activities, with plenty of live music and festivities to be found downtown.

Moving further afield, Newfoundland is blessed with natural wonders, wildlife, and archaeological history, most notably its three UNESCO World Heritage Sites at L'Anse au Meadows, Gros Morne National Park, and Mistaken Point Ecological Reserve.

For more information, pictures and videos, please visit:

Provincial tourism website: <http://www.newfoundlandlabrador.com/>

St. John's tourism website: <http://destinationstjohns.com/>



## Venue

Topical sessions will be held at the Memorial University of Newfoundland, St. John's.

Memorial University is Newfoundland and Labrador's only university, with over 18,500 students across four campuses.

<http://www.mun.ca/>

## The Meeting

The ISECT symposium will take place on the 21<sup>st</sup> and 22<sup>nd</sup> June 2017, with sessions starting at 08:00 on both days.

Session themes will include:

- Neoproterozoic–Cambrian geochronology
- Neoproterozoic–Cambrian geochemistry
- Stratigraphy relating to the Ediacaran–Cambrian boundary
- The origin of animals from a phylogenetic perspective
- Ediacaran palaeobiology
- Cambrian palaeobiology
- Taphonomy across the Ediacaran–Cambrian transition
- Trace fossils across the Ediacaran–Cambrian transition
- Geoconservation

Updates on the programme will be posted to our conference website [www.ISECT2017.org](http://www.ISECT2017.org) as they become available.

**Professor Andrew H. Knoll** (Harvard University) will deliver our public keynote seminar, on the **Ediacaran-Cambrian evolution of the Earth and life**. This will take place on the evening of Wednesday 21<sup>st</sup> June.

An icebreaker reception will be held in the INCO Innovation Centre, Memorial University of Newfoundland, from 18:30-20:30 pm on the evening of Tuesday 20<sup>th</sup> June. The icebreaker reception is included in the meeting registration fee. This is an opportunity to mingle with fellow participants while sampling a selection of locally-produced beverages.

The conference dinner will take place at 19:00 on 22<sup>nd</sup> June. Dinner is not included in the meeting registration fee, and must be booked separately as part of the online registration process. A bar will be available for delegates to purchase drinks before and during the dinner. Delegates with specific dietary requirements should make this known on their registration form.

## Registration

Registration is now open. All interested parties are invited to register for the meeting. Abstract submission will close on **31<sup>st</sup> March, 2017**, while standard registration will close on **30<sup>th</sup> April 2017**.

There is an online registration system, available here:

[https://conf.stuaff.mun.ca/getdemo.ei?id=71&s=\\_3XG0Q8312](https://conf.stuaff.mun.ca/getdemo.ei?id=71&s=_3XG0Q8312)

Conference registration will be **CAD \$280** per person for standard attendees registering before 30<sup>th</sup> April 2017. Delegates registering after this date will be charged an additional CAD \$50.

The registration fee will entitle delegates to a welcome pack, attendance at the icebreaker reception, conference sessions, keynote lecture, morning and afternoon refreshments and abstract submission.

The conference banquet on the evening of 22<sup>nd</sup> June will cost **CAD \$60**, and is not included in the standard registration costs. If you would like to attend, please ensure you tick the relevant box on the online registration form.

Colleagues who have applied for student financial assistance packages should have been contacted directly by the organisers. If you have not, please email [agscl2@cam.ac.uk](mailto:agscl2@cam.ac.uk)

### *Field trip registration:*

Delegates should register for field trips via the main registration website.

Field trip fees are as follows:

Trip 1: Ediacaran of the Avalon Peninsula	<b>CAD \$795</b>
Trip 2: Cambrian of Western Newfoundland	<b>CAD \$945</b>
Trip 3: Ediacaran of the Bonavista Peninsula	<b>CAD \$525</b>
Trip 4: Ediacaran-Cambrian boundary sections and lower Cambrian	<b>CAD \$1000</b>
Trip 5: Mistaken Point Ecological Reserve (single day trip)	<b>CAD \$75</b>

Fees include all transport for the duration of the trip; accommodation for the nights of the trip spent outside St. John's; breakfasts; lunches; and field guides. Dinners are also included in some, but not all, trip fees. Please refer to the conference website for detailed information.

**Please note when booking that some of these trips run concurrently**

### *Cancellation*

Cancellations must be received in writing before Sunday 22<sup>nd</sup> May 2017. An administrative fee of \$45.00 will be charged for **all** cancellations. **No refunds will be issued after this date.**

Please note that due to safety and permit/legislative considerations, **the number of places on the field trips is limited to 30 delegates**. Places will be offered in the order of payment date, in a strict **first-come, first-served** basis.

## **Abstract submission**

All abstracts should be submitted in English. To submit an abstract, please use the Abstract Template at the end of this circular as a guideline for abstract style and format. Please email abstracts, with the email header “ISECT 2017 Abstract - your name”, to Dr Alex Liu at [agscl2@cam.ac.uk](mailto:agscl2@cam.ac.uk). Authors are responsible for the scientific content of their abstracts.

There is no limit on the number of abstracts that can be submitted by an individual, but due to scheduling considerations, there will be a cap on the total number of oral presentations at the meeting. The Scientific Committee will review all submitted abstracts, and reserve the right to accept or refuse any submission. Authors will be informed by email regarding abstract acceptance following the abstract submission deadline (31<sup>st</sup> March, 2017).

Duration of oral presentations will be 20 minutes, comprising 15 minute talks plus 5 minutes for questions/changeover. Presentations should be brought on a memory stick in Powerpoint or PDF format.

Posters will be in portrait format only and a maximum size of A0 (width=841mm, height=1189mm).

## **Thematic issue of the *Canadian Journal of Earth Sciences***

A thematic conference volume of short papers exclusively focused on Ediacaran–Cambrian topics of relevance to the symposium will be published in late 2017 as a special issue of the *Canadian Journal of Earth Sciences*, guest edited by members of the Organizing Committee led by Dr Marc Laflamme.

All manuscripts for the thematic volume will be subject to regular peer-review and must follow the journal's style. The deadline for manuscript submissions is **30<sup>th</sup> September, 2017**. If you intend to submit a paper to this volume, please indicate this in your email when you submit your abstract.

See <http://www.nrcresearchpress.com/journal/cjes> for more information and instructions for authors.



## Travel

St. John's International Airport (YYT) is well connected by air to other North American cities, and receives daily direct flights from Ireland (Dublin), the UK (London Heathrow or London Gatwick), and Norway, via Air Canada and Westjet, while additional international routes via Halifax, Ottawa, Calgary, Montreal, Toronto, Reykjavik and Newark are also available. Delegates wishing to attend the *Cambrian-Ordovician GSSP sections of Western Newfoundland* field excursion should note that this pre-meeting trip will begin in Deer Lake, which is connected by air to Toronto, Halifax and St. John's by the carriers Air Canada, Westjet and Provincial. Delegates on this trip are responsible for arranging their travel both to Deer Lake, and then onwards to St. John's following the conclusion of the trip.

**PLEASE NOTE THAT ST. JOHN'S, NEWFOUNDLAND (YYT) IS NOT THE SAME AS SAINT JOHN, NEW BRUNSWICK (YSJ), OR ST. JOHN'S, ANTIGUA AND BARBUDA (ANU). PLEASE DOUBLE CHECK WITH YOUR TRAVEL AGENT THAT YOU HAVE A BOOKING FOR THE CORRECT AIRPORT BEFORE YOU TRAVEL!**

As of August 2016, travellers to Canada who are from countries that do not require a visa, and who are not US citizens, are required to possess a valid Electronic Travel Authorization (eTA). Further information on whether you need an eTA, and how to apply, can be found here:

<http://www.cic.gc.ca/english/visit/eta.asp>

There are no train services in Newfoundland. All transport for field trips will be provided by the conference organisers. Transport within St. John's is best achieved via taxi, although many of the key conference venues are within walking distance of each other.

## Visa Information

For those delegates who require a visa to visit Canada, invitation letters can be provided upon request. Please contact Prof. Duncan McIlroy at [dmcilroy@mun.ca](mailto:dmcilroy@mun.ca) to arrange this.

## Weather and natural environment

Weather in Newfoundland is particularly unpredictable in June. It is not unusual to have temperatures as low as 5°C or as high as 20°C, with rain, fog, sun and wind all frequently experienced (often on the same day). Hiking will be involved on all field trips. Participants should bring backpack, sunscreen, sun glasses, rain jacket, hat, field apparel, walking boots, field notebook, camera, personal medicines, and other personal items. Bottled water will be provided during the field trips. Participants who are interested in marine-life, bird-life or icebergs may wish to bring binoculars.

Geological field trips can be physically rigorous, and may pose possible dangers and hazards. Participants should assume any and all risks involved in connection with the field excursions, and should arrange their own medical, travel, and liability insurance. Participants should hold harmless the trip leaders and their institutions from any and all claims, injury, losses, and damages.



## Accommodation

Delegates will need to make their own accommodation arrangements for the conference period. We strongly recommend that delegates stay on campus at Memorial University, which offers accommodation just a few minutes walk from the conference venue. The conference organisers have block booked 150 single rooms to accommodate delegates in Macpherson Halls. These rooms are shared suites (every two private rooms shares a bathroom), and are the closest available accommodation to the main conference venues. Single rooms are available for \$60 CAD per person per night on a room-only basis.

To book accommodation please go to the Memorial University Accommodations and follow the instructions listed below:

<http://www.mun.ca/conferences/bookings/isect2017.php/>

- Enter promotion code ISECT2017, choose dates, and the number of guests
- Click "Next" to enter personal and payment details. NOTE: The promotion code only works when you book under the above reservation link and only for the nights of June 18-23, 2017.

Payment is due at the time of booking by Visa or MasterCard.

For any couples attending, a small number of double rooms are available. For assistance in booking one of these if they do not appear on the online system, please email [stay@mun.ca](mailto:stay@mun.ca) or call toll-free at +1 877 730 7657.

Breakfast can be obtained on campus from a number of outlets, including Tim Hortons, Treats and Booster Juice (ranging \$3-\$10 CAD), or Smittys (a family style restaurant in Churchill Square about 7 minute walk away, with breakfast \$10-\$15 on average).

Alternatively, there is a wide range of accommodation options to suit all budgets available in the city:

<http://www.stjohns.ca/visiting/accommodation>

## Opportunities to visit collections

The Rooms Corporation of Newfoundland and Labrador ([www.therooms.ca/](http://www.therooms.ca/)) unites the provincial archives, art gallery and museum. As part of its mandate, the institution's responsibility is to collect, preserve, present, and make available for research the specimens that represent and illustrate Newfoundland and Labrador's natural heritage.

The Rooms' paleontology collection is curated in collaboration with the Geological Survey of Newfoundland and Labrador (Department of Natural Resources). Started in the early 1970's, it comprises several thousand stratigraphic samples from 3600 localities within Newfoundland and southern Labrador, as well as over 2000 illustrated or cited fossil specimens. These include specimens and casts from recent Ediacaran research in eastern Newfoundland, trilobites, and molluscs of early Cambrian to Middle Ordovician age from western Newfoundland.

For more information about the paleontology collection, please contact collection manager Nathalie Djan-Chékar ([nathaliedjan-chekar@therooms.ca](mailto:nathaliedjan-chekar@therooms.ca)).

## Field excursions

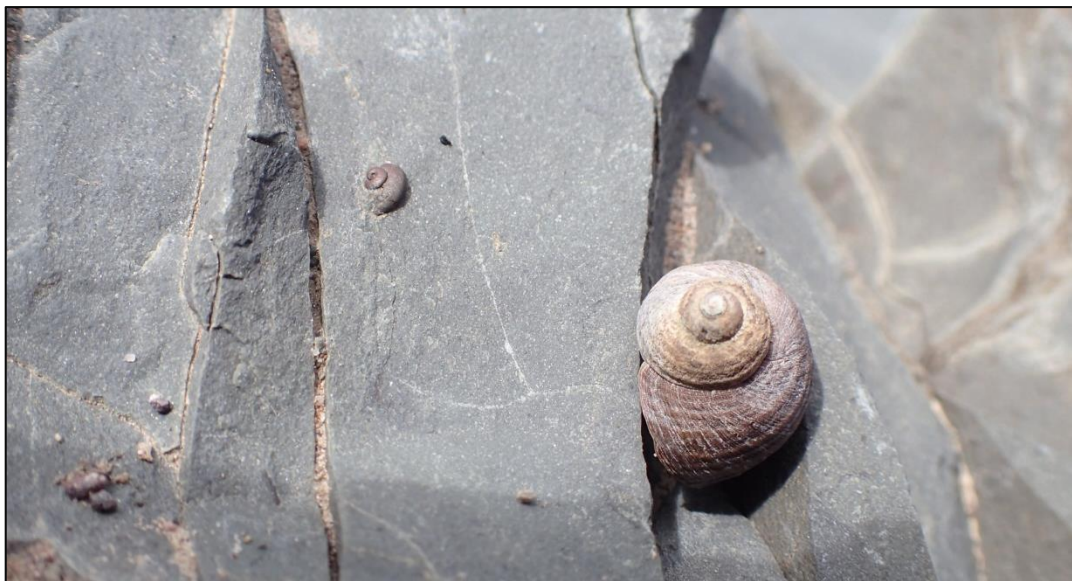
We plan to run five field excursions in total, with two prior to the symposium, and three after. These will visit classic Ediacaran and Cambrian localities of global geological significance, and will provide ample opportunities to discuss important sections, and to observe recently described findings and discoveries.

Potential participants are advised that all fieldtrips will involve a degree of physical exertion. Some sites can only be accessed by hiking distances of 2-3 km.

Owing to the amount of interest expressed for the Mistaken Point Ediacaran trip following the release of the First Circular, we will be offering a second, one-day excursion to Mistaken Point on 23<sup>rd</sup> June, led by Prof. Duncan McIlroy (Trip 5). By doing this we hope to enable as many attendees as possible to visit this site.

Brief outlines of each trip are provided below. For full itineraries, please visit the conference website and follow the links to the relevant trips:

<http://www.isect2017.org/field-trips.html>



Cambrian pyritised *Aldanella* (left) and a modern relative (right) at Little Danzig Cove (Trip 4).

## Trip 1: The Ediacaran Geology and Palaeontology of the Avalon Peninsula

This *four-day pre-conference field excursion* will depart from St. John's, and is proposed for **17-20<sup>th</sup> June 2017**. Led by Dr Alex Liu, Prof. Guy Narbonne, Dr Jack Matthews and Dr Marc Laflamme.

**Cost: CAD \$795.** This fee will entitle participants to return transport from St. John's, field guide, all accommodation (at the Edge of Avalon Inn for three nights), and all meals during the excursion period. Accommodation in St. John's for the night of Tuesday 20<sup>th</sup> June is not included.

- Day 1:** - Gaskiers and St. Mary's to view the ~582 Ma Gaskiers Formation and associated glacial and carbonate deposits.  
- Sword Point, St. Shott's, to introduce Ediacaran macrofossils and general latest Ediacaran stratigraphic context.
- Day 2:** - Mistaken Point Ecological Reserve, sites in the Drook and Briscal formations - including Pigeon Cove (hosting the oldest currently known Ediacara-type biota), and at least two newly discovered localities exhibiting spectacular preservation.
- Day 3:** - Mistaken Point Ecological Reserve, sites in the Mistaken Point and Trepassey formations, including Mistaken Point itself (the classic 'D' and 'E' Surfaces, trace fossil horizon, and Watern Cove); and at least two additional fossil-bearing surfaces.
- Day 4:** - Coastal localities at Ferryland with trace fossils and abundant discoidal fossils.  
- Ferryland Head, to see the latest Ediacaran transition to shallow marine and terrestrial successions.  
- Return to St. John's.



Ediacaran macrofossils on the 'E' Surface, Mistaken Point Ecological Reserve.

## Trip 2: The Cambrian-Ordovician GSSP sections of Western Newfoundland

This *six-day pre-conference field excursion* will run from **15-20<sup>th</sup> June 2017**, led by Prof. Gabriella Bagnoli, Prof. Svend Stouge, and Prof. Duncan McIlroy.

**Cost: CAD \$945.** This fee will entitle participants to transport from Deer Lake to the field sites, transport to Deer Lake at the end of the trip, field guide, all accommodation in Rocky Harbour and Stephenville, and all breakfasts and lunches during the excursion period. Transport to, and accommodation in, St. John's on Tuesday 20<sup>th</sup> June is not included.

**NOTE!!!** Participants should arrange to fly into Deer Lake Airport (YDF) by 14:00 on 15<sup>th</sup> June 2017, and have a stopover until the 20th June when they will need to be on a flight from Deer Lake (YDF) to St. John's Newfoundland YYT.

- Day 1 - Afternoon arrival at Deer Lake airport (YDF)  
- Drive to Whites Hotel (or similar) in Stephenville. Check-in/dinner.
- Day 2 - Stop 1: East Isthmus Bay  
Cambrian-Ordovician boundary in carbonate platform setting-Berry Head Formation (Cambrian; Port au Port Group) to Watts Bight Formation (Lower Ordovician; St. George Group)
- Stop 2: Felix Cove, Port au Port Peninsula  
The section displays the 'Spice' carbon isotope excursion includes 80 m of the Petit Jardin Formation (Cambrian) with trilobites and thrombolites in upper part. Includes the Sauk II to Sauk III sequence boundary.
- Stop 3: Cape Cormorant, Mainland; Port au Port Peninsula.  
Collapse of the carbonate platform: Slope deposits (Darriwilian, Middle Ordovician), debris flows etc. with huge carbonate conglomerates. Beds with conodonts and graptolites.
- Stop 4: West Bay centre - Piccadilly quarry  
Deep water sediments overlain by Humber Arm Allochthon. Table Point and Table Cove Formation carbonates with graptolites and chitinozoans. Also the structural boundary with the Humber Arm allochthon.
- Stop 5: Aguathuna Quarry  
Lower-Middle Ordovician unconformity. Platform carbonates of the Lower to Middle Catoche and Aguathuna formations (St. George Group) overlain by carbonates of the Table Point Formation. Also Carboniferous "cold-seep" limestones with vent fauna.
- Day 3: Travel to Woody Point-Trout River (Tablelands); walk across the exposed palaeo-Moho, and oceanic crust of the Iapetus Ocean.
- Stop 1: Winterhouse Brook
- Stop 2: Boundary between Pre-Cambrian gneiss and Lower Cambrian quartzite.



Day 4: - Stop 1: Cow Head Peninsula  
locality for the Cow Head Group (mid Cambrian to Middle Ordovician; James and Stevens 1986). Proximal slope deposits from the M Cambrian-M Ordovician sourced from the Laurentia. Fauna of abundant trilobites, graptolites, brachiopods, also conodonts and radiolarians.

Stop 2: Lower Head  
Exotic alpha limestone boulder (200 long and 50 m across) of biohermal limestone of unknown provenance, possibly algal mounds that grew along the shallow water platform margin (James and Stevens 1986).

Day 5 - Stop 1: Broom Point  
Cambrian to Ordovician boundary section. Two sections: Broom Point N and Broom Point S. Previously GSSP candidates for the Cambrian-Ordovician Boundary.

- Stop 2: Green Point  
The GSSP section for the Cambrian-Ordovician boundary. Distal slope deposits composed of shale ribbon and parted limestone and conglomerates. Conodonts, graptolites and few trilobites. Isotope profiles (HERB and C/O boundary).

Day 6: - Stop 1: Martin's Point South section.  
Mid Cambrian - Lower Ordovician distal slope succession. Lateral equivalent succession to the Green Point section with HERB isotope excursion and the Cambrian-Ordovician boundary. We will also visit the upper Tremadocian with well-preserved graptolites.

Return to Deer Lake Airport YDF and fly to St. John's YYT at about 15:00 or later to get to St. John's in time for the conference ice-breaker. Anyone wishing to take the long bus ride to St. John's should inform Duncan McIlroy to make arrangements.



Lower Cambrian *Rusophycus* from the trace-fossil rich Hawke Bay Formation on the Port au Port Peninsula of western Newfoundland.

### Trip 3: The Ediacaran macrofossils of the Bonavista Peninsula

This *four-day post-conference field excursion* will depart from St. John's, and is proposed for **23<sup>rd</sup>-26<sup>th</sup> June 2017**. Led by Dr. Alex Liu, Dr. Jack Matthews and Prof. Duncan McIlroy.

**Cost: CAD \$525.** This fee will entitle participants to return transport from St. John's, field guide, all accommodation at the Sherwood Suites, Port Rexton, and all breakfasts and lunches during the excursion period. Accommodation in St. John's at the conclusion of the excursion is not included.

- Day 1:** - Spaniard's Bay, site of Ediacaran macrofossils in the Trepassey Formation, exhibiting unusual '3D' preservation of very high-quality rangeomorph fossils (e.g. Narbonne, 2004).
- Old Bonaventure/Trinity: glacial deposits of the recently discovered Trinity Facies of the Rocky Harbour Fm. This unit has recently been dated as a probable Gaskiers-equivalent event (Pu et al., 2016).
- Day 2:** - Port Union and Burnt Point: Ediacaran fossil-bearing assemblages of the Catalina Dome, first described by Hofmann et al. (2008). This day will begin at the base of the section in Mistaken Point Formation equivalent facies, and work down section to take in sites including Hofmann localities 3, 4, 5, 19 and 26, and the MUN Surface.
- Day 3:** - Little Catalina. Ediacaran fossil-bearing assemblages of the Catalina Dome, first described by Hofmann et al. (2008). This day will begin at the top of the section in the Fermeuse Formation equivalent facies, and work down section to take in sites including Hofmann localities 14, 21 and 22, and newly discovered fossil-bearing surfaces with new and unusual fossil impressions.
- Day 4:** - Coastal localities at King's Cove and Duntara, to see the latest Ediacaran transition shallow marine and terrestrial successions.
- Return to St. John's via Manuel's River (Cambrian trilobite locality) if time permits.



Late Ediacaran Rangeomorph from the MUN Surface, Bonavista Peninsula, Newfoundland

## Trip 4: The Ediacaran-Cambrian Boundary GSSP sections of the Burin Peninsula

This *seven day post-conference excursion* will run from **23<sup>rd</sup>-29<sup>th</sup> June 2017**, and will depart from St. John's. It will be led by Prof. Guy Narbonne and Prof. Ed Landing, with assistance from Prof. Luis Buatois, Prof. Gabriela Mangano, and Prof. Paul Myrow.

**Cost: CAD \$1000.** This fee will entitle participants to return transport from St. John's, field guide, all accommodation, and most meals during the excursion period. Accommodation in St. John's at the conclusion of the excursion is not included.

The proposed itinerary includes visits to:

- \* Manuel's River area (trilobitic sections of the Cambrian)
- \* Harbour Main (Ediacaran Gaskiers diamictite)
- \* Spaniard's Bay (site of exceptional 3D preservation of late Ediacaran rangeomorphs: to be run in conjunction with Trip 3)
- \* The Ediacaran-Cambrian boundary GSSP section at Fortune Head.
- \* The Ediacaran-Cambrian boundary section at Grand Bank Head (with abundant trace fossils and microbial mats)
- \* Little Danzig Cove, Cambrian Stage 2 (type *Watsonella crosbyi* zone) with shoaling in the middle Chapel Island Formation to caliche-stromatolite depositional sequence 1-2 contact; higher strata with unconformity (Stage 3 trilobites overlying middle Stage 2).
- \* Branch section, Cambrian Stages 4 and 5 (with basal unconformity)
- \* West Center Cove, upper Cambrian Stage 3 into Stage 4 succession (without trilobites) in the Bonavista Group (Petley-middle Cuslett Formations)
- \* Smith Sound, sub-trilobitic unconformity (lower Brigus Fm. Stage 3) on non-trilobitic Stage 3 Foster's Point limestones.
- \* Keels worm/mud mound reef, upper Stage 2, regarded as a cool-water analogue and replacement of coeval tropical archaeocyathan build-ups of the Siberian Tommotian.



Trace fossils from Member 2 of the Chapel Island Formation at Grand Bank.



## Trip 5: The Mistaken Point Ecological Reserve (single day trip)

This *one-day post-conference field excursion* will depart and return to St. John's on **Friday 23<sup>rd</sup> June 2017**. It will be led by Professor Duncan McIlroy of the Memorial University of Newfoundland.

**Cost: CAD \$75.** This fee will entitle participants to return transport from St. John's, field guide, lunch and water during the excursion period. Accommodation in St. John's for the night of Friday 23<sup>rd</sup> June is not included.

08:00	Depart St. John's for Portugal Cove South
11:00	Arrive at Portugal Cove South Edge of Avalon Visitor Centre
11:30	Pigeon Cove (the oldest specimens of the Ediacaran biota)
12:30	Hike to Watern Cove, lunch and fossil surfaces
14:00	Trace fossil horizon ~50m stratigraphically above the 'E' Surface
14:45	Mistaken Point (the famous 'D' and 'E' Surfaces)
15:45	Return hike to the bus, and return drive to St. John's
19:00	Expected arrival time in St. John's

Transport will be by school bus.



Ediacaran macrofossils on the 'E' Surface, Mistaken Point Ecological Reserve.

## Contact details

If you have any questions about any aspect of the conference, please contact one of us:

Alex Liu, University of Cambridge agscl2@cam.ac.uk

Duncan McIlroy, Memorial University of Newfoundland dmcilroy@mun.ca

Further information regarding the meeting can be found at our website:

[www.ISECT2017.org](http://www.ISECT2017.org)

## Important Dates

3<sup>rd</sup> January 2017: Second circular. Registration and abstract submission open

31<sup>st</sup> March 2017: Deadline for payment of excursion fees and abstract submission

30<sup>th</sup> April 2017: Deadline for standard registration charges

1<sup>st</sup> May 2017: Final circular with programme

22<sup>nd</sup> May 2017: Final date for registration for the meeting

## Sponsors

International Subcommission on Cambrian Stratigraphy

International Subcommission on Ediacaran Stratigraphy

Memorial University of Newfoundland

Geological Survey of Newfoundland and Labrador

Geological Association of Canada

# Abstract template

**Title of abstract (centered, bold, 12 pt, Times New Roman)**

Author One<sup>1,\*</sup>, Author Two<sup>2</sup>, Author Three<sup>3</sup>

<sup>1</sup>*Author One affiliation.*

<sup>2</sup>*Author Two affiliation.*

<sup>3</sup>*Author Three affiliation.*

\*Corresponding author Email address.

Abstract text here (Times New Roman, regular, 12 pt, left indent). Please do not include references, and limit your abstract (including references, title and affiliations) to one single page.