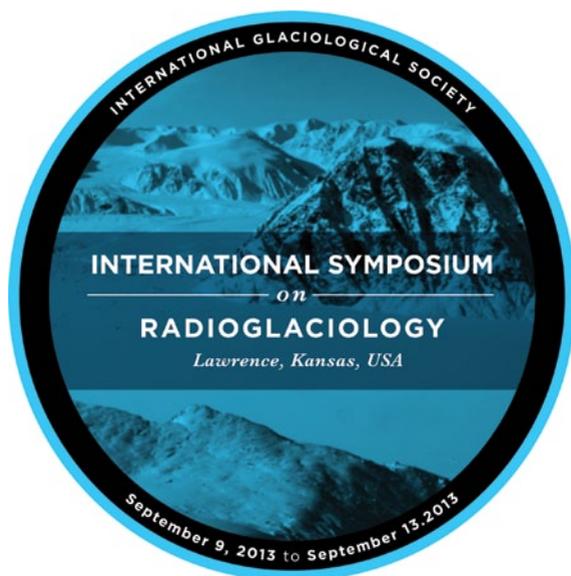




INTERNATIONAL GLACIOLOGICAL SOCIETY

International Symposium on Radioglaciology



Lawrence, Kansas, USA
9–13 September 2013

Co-sponsored by:

- ❄️ Center for Remote Sensing of Ice Sheets (CreSIS)
- ❄️ University of Kansas (KU)
- ❄️ KU School of Engineering
- ❄️ Kansas Office of Research and Graduate Studies

SECOND CIRCULAR
October 2012

<http://www.igsoc.org/symposia/2013/kansas>
<http://www.cresis.ku.edu>



Photo courtesy of Terry Evans

The International Glaciological Society (IGS) will hold an International Symposium on Radioglaciology in 2013. The symposium will be hosted by the Center for Remote Sensing of Ice Sheets (CReSIS). It will be held at the University of Kansas, Lawrence, Kansas, USA, from 9–13 September 2013.

THEME

This symposium will take a comprehensive look at the latest technological innovations in radars and signal processing techniques for investigating ice sheets, glaciers and their geophysical settings, with emphasis on polar and other logistically challenging settings. Recent advances in radio frequency, microwave and digital technologies have enabled the development of innovative radars that are used to sound and image glacial ice in new ways. This has allowed researchers to produce 3-D images of the ice–bed interface even when that surface is covered by more than 3 km of ice. Radars have been developed that can successfully sound most challenging areas such as fast-flowing glaciers and ice-sheet margins. In addition, ultra-wideband radars are being used for fine-resolution mapping of near-surface internal layers in polar firn, for strain rate measurements, ice melt, and other innovative applications. The symposium will cover recent measurements and signal processing advances that are leading to new discoveries. It will also examine the observational needs of the next-generation ice-sheet models, and how radioglaciology can support modeling requirements. The overarching purpose of this meeting is to discuss the latest technical improvements in radars and signal-processing techniques for polar research, to present recent measurements, and to report on analyses and interpretations of recent observations. Additionally, the meeting will provide an opportunity to discuss observational requirements for radars that will most benefit and support development and validation of next-generation ice-sheet models.

KU
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CReSIS
Center for Remote Sensing of Ice Sheets

KU

KU SCHOOL OF
ENGINEERING
The University of Kansas

RESEARCH &
GRADUATE STUDIES
The University of Kansas



TOPICS

Meeting participants are encouraged to present on a wide variety of topics tied to radioglaciology. These include

1. Radars and signal processing techniques for sounding and imaging of polar ice sheets
2. Ultra-wideband radar technology and innovative polar research applications
3. Recent observations and results over the Greenland and Antarctic ice sheets
4. Enhancements of radar measurements needed for improving next-generation ice-sheet models
5. Refining algorithms for basal condition assessment
6. Addressing the gap in radar capabilities for surface-based observations using radar/seismic intercomparisons
7. Remote sensing techniques for smaller ice masses and ice masses in logistically challenging areas outside the poles.

Additional topics may be added on the basis of request and abstract submissions.

Questions and ideas can be referred to members of the Scientific Steering Committee.

ABSTRACT AND PAPER PUBLICATION

Participants wishing to present a paper (either oral or poster) at the symposium will be required to submit an abstract by 27 April 2013. A program and collection of submitted abstracts on a USB stick will be provided for all symposium participants. The Council of the International Glaciological Society has decided to publish a thematic issue of the *Annals of Glaciology* on topics consistent with the symposium themes. Submissions to this issue will not be contingent on presentation at the symposium, and material presented at the symposium is not necessarily affirmed as being suitable for consideration for this issue of the *Annals*. Participants are encouraged, however, to submit manuscripts for this *Annals* volume. The deadline for receiving *Annals* papers is 8 July 2013.





REGISTRATION FEES

All fees are in US dollars, USD

– Participant (IGS member):	\$440
– Participant (not IGS member):	\$510
– Student or retired (IGS member):	\$220
– Student or retired (not IGS member):	\$260
– Accompanying person (18+ years):	\$200
– Accompanying person (12–17 years):	\$110
– Accompanying person (<12 years):	Free
– Late registration surcharge (after 15 June 2013):	\$80

The fees include the icebreaker, daily morning/afternoon coffee/snacks and luncheons (Mon-Fri), a mid-week excursion followed by a BBQ buffet, and the symposium banquet.

Please note that the deadline for full refund is 22 July 2013, while the deadline for partial (on a sliding scale) refund is 24 August 2013. After that, refund requests will not be accepted. All refunds will be made less any bank charges as applicable.

REGISTRATION BY MAIL: Although we strongly prefer registration through the website, it can also be done by filling in and returning the back page of this circular. If payment by credit card is not possible, contact the IGS office to arrange for a bank transfer. All bank transfer payments must include bank charges. Payments made after 15 June 2013 must include the additional \$80 late-registration fee. When completed, please send the form to the Secretary General at the IGS address.

ACCOMPANYING PERSONS: The accompanying person's registration fee (\$200 for 18 and over; \$110 for ages 12 to 17; under 12 free) includes the icebreaker, the mid-week excursion with BBQ, and the symposium dinner. Short excursions and activities in and around Lawrence can be offered on request at additional cost. These include short trips to sightseeing spots in the city, day trips to the surrounding regions, etc.





STUDENT/POSTDOC SUPPORT: Funding is available to partially support student and postdoc attendance at this symposium. Application details will be posted on the IGS/CReSIS symposium webpages later in November 2012.

VENUE AND LOCATION

The meeting will be held on campus of the University of Kansas, Lawrence. Lawrence is situated along the banks of the Kansas and Wakarusa Rivers, and is a 45-minute drive from Kansas City and the Kansas City International Airport (MCI). It has a population of roughly 90 000. Early September is characterized by occasional precipitation and average daily temperatures of roughly 20°C (68°F). Peaks up to 27°C (80°F) frequently occur. Lawrence is one of the few remaining Midwestern cities with a vibrant and thriving downtown area. It is a downhill 10-minute hike from the KU campus with a regular daily public bus service. The city boasts a wide variety of local dining options, busy coffee-shops, bookstores, art galleries, live music venues and locally owned businesses including a brewery, a bakery–café and an art-house film theatre located in the historic Liberty Hall building. The surrounding areas also offer ample scope for geological and cultural excursions. You can hear live jazz in Kansas City, drive to the continent's largest remaining tract of tallgrass prairie in the Kansas Flint Hills, or take a 20-minute walk to Haskell Indian Nations University, a national center for Indian education, research and cultural preservation on the outskirts of the city.

ACCOMMODATION

Fifty rooms have been held on the University of Kansas campus at the Oread Hotel, at a fixed rate of \$115 per night. Additional rooms have been reserved at the Holiday Inn for \$75 per night (also includes breakfast on site at the Holiday Inn). There will be shuttle transport to campus from the Holiday Inn to the conference location (KU Memorial Union). Parking passes are available for local delegates who are commuting to and from the conference.





MID-WEEK ACTIVITIES

Two half-day mid-week excursions will be organized to explore some of the region's natural and cultural surroundings on Wednesday 11 September 2013. Delegates will return to Lawrence in the later afternoon and be shuttled to the nearby Haskell Indian Nations University for a 6 pm BBQ and live event. A group of professional intertribal Powwow performers will drum, sing and dance in full traditional costume at the historic Haskell gazebo.

These two options are:

1. A ranger-guided tour of the Tallgrass Prairie Reserve, in the Kansas Flint Hills, followed by a horse/cattle handling demonstration with old fashioned refreshments and a packed lunch at a nearby working ranch

or

2. A guided tour of the world-class Nelson Museum of Art with lunch at the museum café, followed by a visit to the World War I Museum in Kansas City. This is in close walking distance of Kansas City's newly restored Union Station.

RECEPTION

There will be an icebreaker reception on the fifth floor terrace of the Oread Hotel (KU campus) on Sunday 8 September from 5–10 pm. You will be able to pick up your registration package at this location.

BANQUET

The banquet will be held on Thursday evening at the KU Alumni Association (KU campus) from 6–10 pm. Transport to and from the venue will be provided for guests staying at the Holiday Inn.





SYMPOSIUM ORGANIZATION

Magnús Már Magnússon (International Glaciological Society)

SCIENTIFIC STEERING AND EDITORIAL COMMITTEE

Prasad Gogineni (University of Kansas, USA), Chair of the Scientific Committee;

David Braaten (University of Kansas, USA), Chief Editor; scientific editors

Sridhar Anandakrishnan (Penn State University, USA), Dorthe Dahl-Jensen (University of Copenhagen, Denmark), Hugh Corr (British Antarctic Survey, UK)

LOCAL ORGANIZING COMMITTEE

Sivaprasad Gogineni (Chair), Carl Leuschen, John Paden, Leigh Stearns,
Cornelis van der Veen, Stephen Yan

INVITED SPEAKERS

Confirmed invited speakers include Dr Richard Alley, Dr H. Jay Zwally,
Dr Dorthe Dahl-Jensen. Other invited speakers will be confirmed on the symposium
webpages shortly.

CONTACTS FOR FURTHER INFORMATION

Magnús Már Magnússon

International Glaciological Society

Scott Polar Research Institute

Lensfield Road, Cambridge, CB2 1ER, UK

Tel: +44 (0)1223 355 974/Fax: +44 (0)1223 354 931/E-mail: igsoc@igsoc.org

Symposium website: <http://www.igsoc.org/symposia/2013/kansas/>

Sorcha Hyland

Center for Remote Sensing of Ice Sheets (CREGIS), University of Kansas

2335 Irving Hill Road, Lawrence, Kansas, 66045-7612, USA

Tel: +1 785.864.7998/ Fax: +1 785.864.7753/E-mail: shyland@cregis.ku.edu

Local symposium website: <https://www.cregis.ku.edu/meetings/conferences>

IMPORTANT DATES

Abstract submission deadline:	27 April 2013
Notification of acceptance:	17 May 2013
Pre-registration deadline:	15 June 2013
Paper submission deadline:	8 July 2013
Deadline for refund:	22 July 2013
Registration and Icebreaker:	8 September 2013
Conference begins:	9 September 2013
Final revised papers deadline:	21 October 2013



Photo courtesy of Terry Evans

INTERNATIONAL SYMPOSIUM ON RQDIOGLACIOLOGY
Lawrence, Kansas, USA, 9–13 September 2013

REGISTRATION FORM

Register online at www.igsoc.org/symposia/2013/kansas/registration

Family Name: _____

Given Name: _____

Address: _____

Tel: _____ E-mail: _____

Accompanied by:

Name: _____ Age (if under 18) _____

Name: _____ Age (if under 18) _____

Dietary and other requirements: _____

Registration fees (US dollars)

Participant (IGS member)	\$440
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Accompanying person (18+/12–17)	\$200/\$110
Late registration surcharge (after 15 June 2013)	\$80

TOTAL REGISTRATION FEES \$ _____

Payment of registration fee by MasterCard, VISA or American Express

Card number

Expiration / CVV (last 3 numbers on signature strip)

Name of card holder as shown on card: _____

Signature: _____