

Thermo2020



Santa Fe, NM

17th International Conference on Thermochronology

Santa Fe, New Mexico, USA

September 12-17, 2021

First Circular (revised for 2021)

The 17th International Conference on Thermochronology will be held from September 12-17, 2021, in Santa Fe, New Mexico, USA at the Eldorado Resort. It is the primary international meeting dedicated to thermochronology, and will focus on the theory, practice, application, and quantitative interpretation of fission track, noble gas, and other thermochronologic methods.

The aim of this meeting is to present and discuss the latest cutting-edge research, innovations, novel directions, and challenges, and to facilitate the exchange of ideas among the international thermochronology community. It will be a forum to discuss critical aspects and hurdles of thermochronometric methodologies and their application in the geosciences and related fields. *Particular emphasis will be placed on future directions in thermochronometry, including analytical methodologies, best practices, data handling, and numerical modeling.*

The conference is organized by a diverse spectrum of thermochronology groups from across the United States. This first circular introduces the conference and the venue. Full details of the conference, including confirmed keynotes, invited speakers, field trip, workshops, and other logistics will be communicated via the conference website:

<https://www.Thermo2020.us>

The conference was originally scheduled to occur in 2020, but pandemic necessitated its postponement. While we will be carefully monitoring the Covid-19 situation, and will ensure that all guidelines imposed by the State of New Mexico are adhered to at the conference site, the organizing committee is very excited to be able to offer it as an in-person meeting.

International Conferences on Thermochronology

This bi-annual conference has evolved over the past few decades via the coalescence of the International Workshops on Fission Track Thermochronology, held since 1978, and the European Workshops on Thermochronology. It has become the premier forum for thermochronology practitioners and users to discuss fundamental and methodological topics and opportunities related to their science and its future.

Thermo2021 Program

The Thermo conference format has evolved continuously to meet the needs of the community. This iteration will focus on the integration of thermochronology theory and practice, and encourage interaction across disciplines and generations. The program will include a varied suite of keynote and invited speakers as well as a diverse set of student presentations. It will promote interactivity and engagement via increased emphasis on poster sessions, breakouts, and community discussion to facilitate brainstorming that will chart the next chapters of thermochronometry.

The meeting will be organized around the following broad themes:

- Fission-track: theory, nuts & bolts, and best & new practices
including image capture, LA-ICP-MS measurements, etching, multi-kinetics
- (U-Th)/He: theory, nuts & bolts, and best & new practices
including $^4\text{He}/\beta\text{He}$, laser ablation, kinetics, ramped heating, radiation damage, imaging
- Additional noble gas and solid state thermochronometers
including Ar/Ar, U-Pb, and trapped-charge thermochronometry; speedometry; and associated fields
- Integration and intersection
using thermochronometers individually and in concert to solve geologic problems through analysis, modeling, and linkages to allied fields such as petrochronology
- Frontiers in data handling, statistics, interpretation methods, and modeling
including innovative data interpretation; statistical treatments of data; thermal-history modeling approaches and best practices; dealing with data dispersion; publication standards and data archives

Field Trips and Short Courses

Due to difficulties arising from Covid-19, The 17th International Conference on Thermochronology will not be offering the customary pre-conference field trip. A mid-conference trip will visit local geological sites, and a non-field “cultural” option exploring Santa Fe will be offered as well. There will also be short courses offered on Sunday September 12th.

Conference Venue and Transportation

The conference will be held at the Eldorado Spa and Hotel Resort in Santa Fe, New Mexico, in the SW United States of America. Santa Fe, located at the foot of the Sangre de Cristo Mountains, is a historic town in northern New Mexico that was founded as a Spanish colony in 1610. It has a number of tourist attractions, including the historic Plaza in the heart of Santa Fe, the oldest church in the continental United States, and the Georgia O’Keeffe Art Museum.

The organizing committee has negotiated reasonably priced accommodation at the main conference hotel, and we strongly encourage participants to stay there. There is, however, a plethora of other accommodations available within walking distance in Santa Fe. The town is a well-known tourist destination, so please make your hotel reservations early.

Santa Fe has a small airport that is served daily by direct flights from Dallas/Ft. Worth and Los Angeles (American Eagle) and Los Angeles and Salt Lake City (Delta). The airport is located 15 min. from the conference venue. There is also a major airport in Albuquerque, New Mexico, located less than one hour away from Santa Fe. Transport to Santa Fe is offered by shuttle buses and from downtown Albuquerque via train (Rail Runner). Note that the pre-meeting field trip to the Colorado Plateau will likely start from Phoenix, Arizona.

Pre-registration

Please express your interest in the conference through the pre-registration form on the conference website in order to receive the second circular, call for abstracts, and other important communications and information concerning the conference directly by e-mail. Pre-registration is free and does not involve any obligation to register for the conference, but it does allow us to better plan for a successful conference.

Conference registration will open in July 2021 and all other pertinent information, including registration fees, field trips, etc. will be communicated at that time.

Organizing Committee

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