

# Thermo2020

Santa Fe, NM



**17<sup>th</sup> International Conference on Thermochronology**  
**Santa Fe, New Mexico, USA**  
**September 13-19, 2020**

## **First Circular**

The 17<sup>th</sup> International Conference on Thermochronology will be held from September 13-19, 2020, 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 trips, workshops, and other logistics will be communicated via the conference website:

<https://www.Thermo2020.us>

## **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.

## Thermo2020 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*
- Data handling and management, big data, and statistics  
*including repositories and archiving data, metadata, and derivative products; publication standards; juxtaposing methods; dealing with dispersion; quantifying what is gained or lost with variable degrees of calibration and characterization; what's next?*

## Field Trips

The 17<sup>th</sup> International Conference on Thermochronology will also include a pre-conference field trip to the Colorado Plateau, including the Grand Canyon; a mid-conference field trip that will visit local geological sites, with a non-field “cultural” option exploring Santa Fe; as well as post-conference workshops.

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

Conference registration will open in January 2020 and all other pertinent information, including registration fees, field trips, etc. will be communicated at that time.

### **Organizing Committee**

Richard Ketcham, University of Texas/Austin  
Alexis Ault, Utah State University  
Emily Cooperdock, Univ. of Southern Calif.  
Julie Fosdick, University of Connecticut  
Sam Johnstone, USGS Denver  
Marissa Tremblay, Purdue University

Danny Stockli, University of Texas/Austin  
Barbara Carrapa, University of Arizona  
Rebecca Flowers, University of Colorado  
Matt Heizler, New Mexico Tech  
Peter Reiners, University of Arizona  
Peter Zeitler, Lehigh University

