

## NATAS Short Course

The acclaimed NATAS Short Course will immediately after the conference on Aug. 9-10, 2018. The aim of the Short Course is to introduce participants to the fundamentals of thermal analysis and rheology, instrumentation, test protocols, and specimen preparation. Hands on instruction is included. Applications in focused areas, including polymers, pharmaceuticals, and energetic materials will be discussed in depth. NATAS Short Course instructors are highly credentialed and renowned for their expertise. Beginning thermal analysts, graduate students, and those wanting to enhance their understanding and practice of thermal analysis will benefit from enrolling in the NATAS Short Course. Updated Short Course details can be found at our website, [WWW.NATASINFO.ORG](http://WWW.NATASINFO.ORG)

Short Course Organizer:  
Dr. Sara Reynaud

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## Notable Web Addresses

NATAS [www.natasinfo.org](http://www.natasinfo.org)  
University of Pennsylvania [www.upenn.edu](http://www.upenn.edu)  
Houston Hall, U. of PA, [www.perelmanquad.com](http://www.perelmanquad.com)  
Sheraton University City,  
[www.philadelphiasheraton.com](http://www.philadelphiasheraton.com)  
Philadelphia Convention and visitors Bureau  
[www.philadelphiausa.com](http://www.philadelphiausa.com)  
Phila International Airport [www.phl.org](http://www.phl.org)  
American Airlines [www.aa.com](http://www.aa.com)  
Delta Airlines [www.delta.com](http://www.delta.com)  
Southwest Airlines [www.southwest.com](http://www.southwest.com)

## The 2018 Venue

Philadelphia, PA is the fifth largest and one of the oldest cities in the USA. The conference site is Houston Hall, [www.perelmanquad.com](http://www.perelmanquad.com), at the University of Pennsylvania, an Ivy League school founded by Benjamin Franklin. It is steeped in history having both the first medical school in the country and a world renowned museum of anthropology and archeology. Participants and spouses will have no shortage of places to see and things to do, all within easy reach of the conference site. These include Independence Hall, the Liberty Bell, and the new Constitution Center- see the Philadelphia Convention and visitors Bureau, [www.philadelphiausa.travel](http://www.philadelphiausa.travel).

Philadelphia International Airport, which is only five miles from city center, is serviced by most major airlines and is a hub for American Airways. Road and rail travel are equally convenient.

## Philadelphia at night



The conference is co-sponsored by the Laboratory for Research on the Structure of Matter, University of Pennsylvania.

## 45<sup>th</sup> Annual Conference of the North American Thermal Analysis Society



**North American Thermal Analysis Society**

## Conference Announcement and First Call for Papers

Technical Conference

August 6-9, 2018

Short Course

August 9-10, 2018

Houston Hall

University of Pennsylvania

Philadelphia PA 19104

Visit [WWW.NATASINFO.ORG](http://WWW.NATASINFO.ORG) for the Latest Conference Details and Information.

**45th Annual NATAS  
Conference  
Technical Conference  
August 6-9, 2018**

**Short Course  
August 9-10, 2018**

Houston Hall, University of Pennsylvania  
Philadelphia PA 19104

The North American Thermal Analysis Society offers scientists and practitioners the opportunity to explore the frontiers of thermal analysis, rheology, and materials characterization by participating in the 2018 NATAS Conference and Short Course. Presentations and posters by renowned scientists and graduate students set the stage for excellent discussions and an ideal environment to learn about state-of-the-art techniques and exciting new developments in materials research. A Technical Exhibit will feature multiple vendors presenting their latest instrumentation for thermal analytical and rheological measurements. The cordial setting provides conference attendees the opportunity to review a variety of instruments and services offered by many vendors in a single location.

Plan to attend the opening invited lecture, welcome reception and student and general poster sessions on Monday evening, August 6 in Houston Hall, along with the opening of the Instrument Exhibition. The Conference Banquet will be held on Wednesday, August 8, 2018.

**Call for Papers**

Abstract Deadline: April 15, 2018  
[WWW.NATASINFO.ORG](http://WWW.NATASINFO.ORG)

**Technical Program**

Honorary Session for Prof. Patrick Gallagher  
Honorary Session for Prof. Wei-Ping Pan  
Advances in Instrumentation and Methods  
Physical Properties of Polymers  
Biomaterials & Biopolymers  
Food Science  
Metals, Inorganic, and Ceramic Materials  
Kinetics  
Fast Rate DSC  
Thin Films and Nanoconfinement  
Composites and Nanocomposites  
Thermosets  
Pharmaceuticals  
Rheology and Viscoelasticity  
Wood Science and Technology  
Sustainable Materials and Green Chemistry  
Thermal Conductivity  
Energetic Materials  
Thermal Hazards  
Additive Manufacturing  
Process Analysis  
General Session  
Student and General Poster Session

**Technical Program Chair**

Prof. Xiao Hu  
Physics, Rowan University  
[hu@rowan.edu](mailto:hu@rowan.edu)

**Conference Chair**

Dr. Andrew R. McGhie  
LRSM, University of Pennsylvania  
[mcghie@lrsm.upenn.edu](mailto:mcghie@lrsm.upenn.edu)

**Student Poster Competition**

NATAS 2018 will host the Annual Student Poster Competition open to undergraduate and graduate students utilizing thermal methods in their research. Awards will be presented at the conclusion of the poster competition.



Houston Hall-Conference Site

**NATAS Student Travel Awards**

NATAS encourages graduate student participation by providing financial support for up to five awards of \$250-500 each. Details on how to apply will be provided at the Society webpage at [WWW.NATASINFO.ORG](http://WWW.NATASINFO.ORG)

**NATAS Professional Recognition**

NATAS annually recognizes outstanding achievements and contributions in thermal analysis with the following awards.

**NATAS Mettler Award for Outstanding Achievement** for distinguished contributions in the field of thermal analysis.

**NATAS SETARAM Student Award** for the best original contribution by a graduate student to the advancement of the field of thermal analysis.

**NATAS Netzsch Fellowship Award** for sustained contributions in the field of thermal analysis.

**NATAS Netzsch Outstanding Service Award** for meritorious contributions to the Society.

Nomination details are provided on the Society webpage [WWW.NATASINFO.ORG](http://WWW.NATASINFO.ORG)