

AICAT notizie

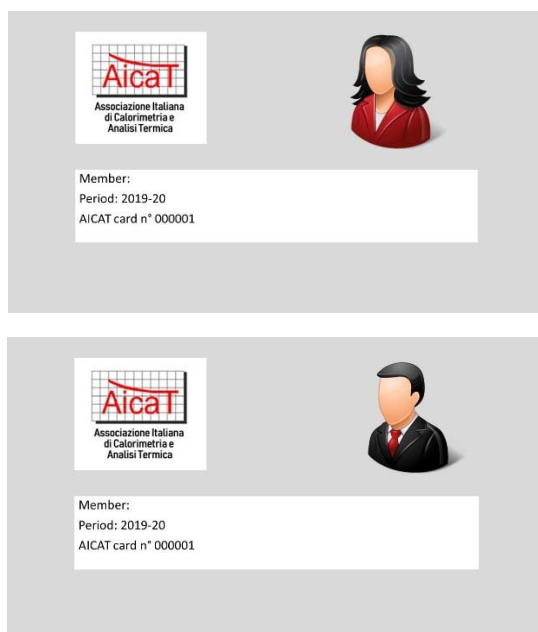
AICAT-GICAT news

Nuova Serie

April 2019

Diffusione gratuita

Bollettino dell'Associazione Italiana di Calorimetria e Analisi Termica



Sostenete l'Associazione Italiana di Calorimetria e Analisi Termica, rinnovando o effettuando il tesseramento per l'anno 2019-20.

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Associazione Italiana di Calorimetria e Analisi Termica
| **Gruppo Interdivisionale di Calorimetria e Analisi Termica** | <http://www.aicat-gicat.it/index.html>

Responsabile: Ignazio Blanco –
Dipartimento di Ingegneria Civile ed
Architettura - Università degli Studi di
Catania - V.le A. Doria 6 95125 Catania
iblanco@unict.it

Obituary of Prof. Andrzej Malecki

Prof Andrzej Malecki was a most active, open-minded and cheerful colleague.

When he organized ESTAC 9 in Krakow (28-31 August 2006), he was Head of the Department of Inorganic Chemistry, Faculty of Materials Science and Ceramics, AGH University of Science and Technology, Cracow. He was much helped by his wife Barbara Malecka, who worked in the same Department and had, like him, excellent social and scientific abilities. This ESTAC Symposium was a success. Their scientific field of interest was the reactivity of solids with a special focus on the thermal decomposition of inorganic salts.

Andrzej, who had been elected as ICTAC Vice-President in 2006 and who became ICTAC President in 2012, unfortunately had to face severe heart problems which did not allow him to keep the ICTAC Presidency beyond 2014. In addition, his wife was hit by a cancer which took her away in 2013. When she died in 2013 she was chairing the ICTAC Committee on the Reactivity of Solids and was the guest-editor of a special issue of the JTAC.

We have the sad feeling that his illness has hit him in mid-flight and forced him to stop his activities at the time when our ICTAC community would have drawn the best from his experience and human abilities. He was only 71 when he passed away on January 20, 2019. Many of us will miss him and we all share the sorrow of our Polish colleagues.



Regards,

Wim de Klerk ICTAC-President

Tesseramento 2019 -20

 Associazione Italiana Calorimetria e Analisi Termica 	
ISCRIVERSI ALL' AICAT	
	Si ricorda che la scheda di iscrizione può essere inviata al Presidente:
Home page	Prof. G. Arena
Storia dell'AICAT	Dipartimento di Scienze Chimiche
Consiglio Direttivo	Università degli Studi di Catania
Statuto	Viale A. Doria, 6
Regolamento	95125 Catania (Italy)
Come Iscrivarsi	e-mail: garena@unicat.it
Attività	Tel. +39.095.73.85.071
Convegni	oppure, insieme al pagamento della quota biennale (€ 50,00 per le persone fisiche, € 400,00 per Enti o Industrie) inviato tramite vaglia/assegno al Tesoriere:
Publicazioni	Prof.ssa M. Catauro
Premi	Dipartimento DII, Università degli Studi della Campania Luigi Vanvitelli
Bollettino	Via Roma 29, 81031Aversa (CE) Email: michelina.catauro@unicampania.it

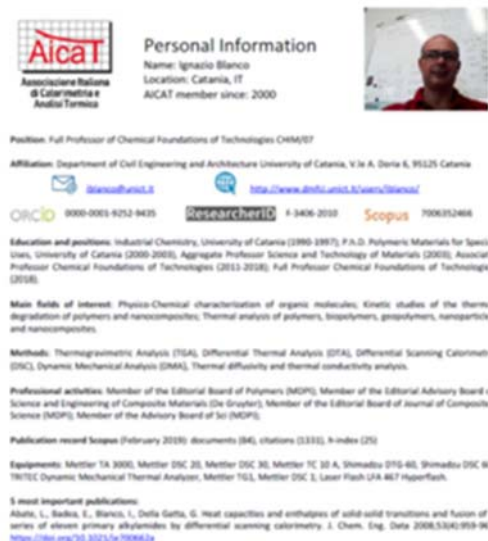
Per coloro che ancora non è avessero provveduto a rinnovare la tessera associativa per il biennio 2019-20 ricordiamo che è ancora possibile farlo attraverso i consueti canali che trovate sul nostro sito web <http://www.aicat-gicat.it/ita/iscrizio.html> . Per coloro che invece volessero entrare a far parte dell'Associazione Italiana di Calorimetria ed Analisi Termica, la quota associativa è di 50 ed è valida per un biennio. Contestualmente al versamento della quota va compilata la scheda di iscrizione <http://www.aicat-gicat.it/ita/iscrizio.html> .

Divenendo socio AICAT innanzi tutto si contribuisce alla crescita della Calorimetria e dell'Analisi Termica Italiana, infatti è grazie al contributo dei soci che l'Associazione finanzia le borse di studio da destinare a giovani ricercatori per favorirne la partecipazione a Scuole e Convegni, sia nazionali che internazionali. Inoltre come membri AICAT a partire da quest'anno si ha la possibilità di pubblicare la propria scheda competenze nell'Albo che si trova sul nostro sito web.

Albo delle competenze

A partire da quest'anno l'AICAT ha realizzato sul proprio sito web un albo delle competenze professionali e accademiche dei propri soci. Ogni iscritto all'Associazione Italiana di Calorimetria ed Analisi Termica potrà inserire online una scheda sintetica contenente, oltre alle informazioni di contatto, i campi in cui si svolge la ricerca, le principali metodologie usate e la strumentazione di cui si dispone. L'intento è quello di favorire il piu possibile la condivisione delle conoscenze e le collaborazioni inter-sede con il fine ultimo di consolidare il ruolo delle tecniche di Calorimetria ed Analisi Termica nei vari aspetti della ricerca scientifica italiana ed internazionale.

Ignazio Blanco



Since this year, AICAT has created on its website a register of the professional and academic skills of the AICAT members. Each member of the Italian Association of Calorimetry and Thermal Analysis will be able to insert online a short sheet containing, in addition to the contact information, the fields in which the research is carried out, the main methodologies used and the available instrumentation. The aim is to encourage, as much as possible, the sharing of knowledge and inter-site collaborations with the final goal of consolidating the role of Calorimetry and Thermal Analysis techniques in the various fields of Italian and international scientific research.

Ignazio Blanco

#AICAT2018

XL Congresso Nazionale di Calorimetria, Analisi Termica e Termodinamica Applicata 17-19 Dicembre 2018 Centro Congressi “Le Benedettine”, Pisa, Italy



Professor Maria Rosaria Tinè,
Organizer of XL AICAT Congress

La XL edizione del Convegno di Calorimetria, Analisi Termica e Termodinamica Chimica, AICAT_2018, si è svolta dal 17 al 19 dicembre dello scorso anno nella magnifica cornice del Centro Congressi “Le Benedettine” dell’Università di Pisa, su iniziativa congiunta dell’AICAT e del GICAT (<http://aicat.dcci.unipi.it>).

Il convegno, di cui ho avuto l’onore di curare l’organizzazione insieme a Celia Duce, Luca Bernazzani e tutto il gruppo THERMOLB del Dipartimento di Chimica e Chimica Industriale dell’Università di Pisa, è venuto a dieci anni di distanza da un altro congresso AICAT-GICAT organizzato a Pisa nel 2008 e, come tutti i nostri convegni nazionali e internazionali, aveva lo scopo di fornire agli studiosi che operano nel settore della calorimetria e dell’analisi termica l’opportunità di uno scambio di informazioni scientifiche e di discussioni critiche su tutti gli aspetti della ricerca avanzata in questo campo.



AICAT President, Prof. Arena, introduces AICAT-TA Award Prof.
Adrian Velazquez Campoy.



A foreshortening of the splendid AICAT 2018
venue

AICAT President, Prof. Arena, and Alberto Lucci’s wife introduce Lucci Award, dott. Rosario Oliva from Federico II University of Naples.



People attending XL AICAT Congress

Il congresso si è articolato in varie sezioni dedicate ai differenti settori nei quali la calorimetria trova importanti applicazioni: dalla biocalorimetria, ai polimeri, materiali e biomateriali, alla food chemistry, alla cinetica e catalisi, alla calorimetria in soluzione, ai beni culturali. Hanno partecipato circa settanta iscritti e mi fa piacere segnalare in particolare la presenza di venti giovanissimi studiosi, studenti di dottorato o post-doc, che si avviano agli studi in questo campo. Le spese per la loro iscrizione sono state interamente sostenute da contributi dell'Università di Pisa, dell'AICAT e della Sezione Toscana della Società Chimica Italiana in un'azione lungimirante di incoraggiamento dei più giovani alla ricerca e, soprattutto, alla ricerca in questo settore. Confido che sia stata per tutti loro un'opportunità di incontrare colleghi più esperti, di approfondire e arricchire le loro conoscenze e, almeno per alcuni, anche di scoprire come la calorimetria abbia potenzialità ben più ampie del ruolo routinario in cui è talvolta immeritabilmente confinata. Spero altresì che sia stata per tutti i partecipanti un'opportunità di scambiare conoscenze, esperienze e entusiasmo per il nostro lavoro.



The amazing conference room during the presentation of Dr. Antonella Esposito from the University of Rouen



GICAT Coordinator, Prof. Lazzara, introduces the plenary Lecture of Prof. Vecchio Cipriotti from "La Sapienza" University of Rome

Durante il congresso sono stati assegnati il premio AICAT-TA e il premio Alberto Lucci. Il primo è stato attribuito quest'anno al prof. Velazquez Campoy dell'Università di Saragozza, e il secondo al dott. Oliva dell'Università Federico II di Napoli, entrambi per le loro ricerche nel settore della biocalorimetria. I due premi sono ormai una consolidata tradizione dei nostri convegni e siamo grati alla TA Instruments e alla famiglia Lucci che continuano a sostenerli. I vincitori hanno presentato i risultati del loro lavoro in due interessanti e stimolanti relazioni.

Inoltre al termine della stimolante sessione poster una apposita commissione ha assegnato il premio quale migliore poster al Dr. Andrea Mezzetta del Dipartimento di Farmacia dell'Università di Pisa che ha presentato una ricerca sull'effetto della struttura nel comportamento termico di liquidi ionici di-cationici. Le altre conferenze plenarie sono state tenute da Stefano Vecchio Cipriotti, sull'uso delle tecniche termoanalitiche per gli studi di stabilità delle sostanze, e da Dimitrios Fessas, sulle nuove sfide della calorimetria nella food science. A questo tema è stata dedicata anche la key-note di Matteo Scampicchio. Le key-notes di Dominique Scarlone, Erika Ribechini ed Elena Badea hanno aperto la partecipata sessione dedicata ai beni culturali, quella di Giovanna Bruni la sessione dedicata alla farmaceutica. Carmelo Sgarlata, e Ignazio Blanco hanno presentato le loro ricerche rispettivamente nell'ambito della calorimetria in soluzione e del ruolo dell'Analisi Termica nella stampa 3D. Il panorama scientifico sulle ricerche recenti in tutti questi campi è stato completato da venti comunicazioni orali e altrettanti poster.

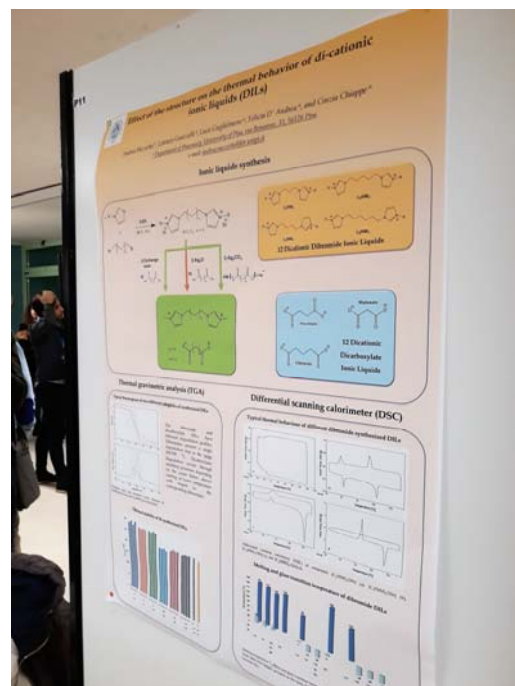
Voglio ringraziare gli sponsor che hanno sostenuto l'iniziativa: Mettler Toledo, NETZSCH Geraetebau GmbH, MP Strumenti, Automation s.r.l., Setaram Instrumentation ma, soprattutto, voglio ringraziare tutti i relatori per l'impegno e la passione scientifica che ciascuno di loro ha messo nelle sue presentazioni, assicurando al congresso un elevato livello scientifico, e tutti i partecipanti per l'attenzione e l'interesse, che lo hanno reso vivace e partecipato, e per l'atmosfera di amicizia che è tradizionale in tutte nostre riunioni e le caratterizza rendendole, non solo scientificamente ma anche umanamente, una felice occasione di incontro.

Permettetemi di concludere questa nota con un pensiero rivolto a un'amica che ha partecipato con noi a questo congresso e qualche giorno fa ci ha purtroppo prematuramente lasciati. Cinzia Chiappe è stata una brillante scienziata. Agli studi sui liquidi ionici, e sulla reattività delle sostanze organiche in questi solventi di basso impatto ambientale, sono legati i suoi più importanti successi scientifici e la sua notorietà internazionale. Di recente aveva intuito l'importanza della calorimetria per i suoi studi e aveva cominciato a frequentare il nostro ambiente e i nostri congressi. In questo ultimo aveva fatto parte del comitato scientifico aiutandoci con la sua preziosa esperienza. Era una donna energica e determinata ma al contempo generosa, ironica, elegante nel tratto e gradevole nella compagnia. Conoscendo il suo riserbo, so che non avrebbe gradito troppe parole ma il nostro ricordo affettuoso sicuramente sì.

Maria Rosaria Tinè



Participants to the XL Congresso AICAT



Dr. Mezzetta's poster, reported as best one of the session.



Poster Session

Articoli italiani su JTAC 2019



January 2019, Volume 135, Issue 1, pp 371–377

A critical analysis of clustering phenomenon in Al₂O₃ nanofluids

Fabrizio Iacobazzi, Marco Milanese, Gianpiero Colangelo, Arturo de Risi

February 2019, Volume 135, Issue 4, pp 2111–2115

Dual cure composites: Could body temperature offset the absence of light activation?

M. Petrini, M. Ferrante, D. Vitale, G. Spoto

March 2019, Volume 135, Issue 5, pp 2807–2811

Carbohydrate recognition of C3-symmetrical tripodal receptor-type 2,4,6-trisubstituted 1,3,5-triazine derivatives with antiviral activities

Nobuko Mibu, Tomonori Ohata, Marina Sano, Jian-Rong Zhou, Kazumi Yokomizo, Hatsumi Aki, Kunihiro Sumoto

April 2019, Volume 136, Issue 2, pp 943–955

Thermography data fusion and nonnegative matrix factorization for the evaluation of cultural heritage objects and buildings

Bardia Yousefi, Stefano Sfarra, Clemente Ibarra-Castanedo, Nicolas P. Avdelidis, Xavier P. V. Maldague

May 2019, Volume 136, Issue 3, pp 967–993

Impact of rock fabric, thermal behavior, and carbonate decomposition kinetics on quicklime industrial production and slaking reactivity

Gabriele Vola, Pierangelo Bresciani, Elisa Rodeghero, Luca Sarandrea, Giuseppe Cruciani

Manuscript submission @ <https://www.editorialmanager.com/jtac/default.aspx>

Articoli italiani su TA 2019



January 2019, Volume 671, pp 26-31

Thermodynamic stability of myoglobin-poly(ethylene glycol) bioconjugates: A calorimetric study

Chiara Pelosi, Francesca Saitta, Frederik R. Wurm, Dimitrios Fessas, Maria Rosaria Tinè, Celia Duce

February 2019, Volume 672, pp 142-149

Effect of silica particle size on the formation of calcium silicate hydrate [C-S-H] using thermal analysis

Riccardo Maddalena, Christopher Hall, Andrea Hamilton

February 2019, Volume 672, pp 157-161

Structural relaxation in PLLA: Contribution of different scale motions

Maria Cristina Righetti, Elisa Mele

Manuscript submission @ <https://www.evise.com/profile/#/TCA/login>

2019 Events

5th Central and Eastern European Conference for Thermal Analysis and Calorimetry (CEEC-TAC 5) & 14th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta 2019) joint meeting, 27-30 August 2019, Rome, Italy

Recently, two European meetings of Calorimetry and Thermal Analysis, related to the communities of Central and Eastern Europe (CEEC-TAC) and of the countries facing the Mediterranean sea (MEDICTA) have been organized in the odd years. A joint congress has been decided to held for the first time next summer (27-30 August) at the Rectorate Building of Sapienza University of Rome. The conference aims at reporting on current relevant developments in the



A view of La Sapienza University of Rome

areas of thermal reactivity and thermal properties of solid materials, kinetics of degradation of materials, thermal behaviour of polymers, composite materials and biomaterials, materials for production, conversion and restocking of energy, applications of thermochemistry, applications to materials for cultural heritage, just to name a few among the most appreciated. According to the organizers' intentions it should be a forum for discussions on current relevant research developments and to support old and new collaborations among scientists, confident that Rome, the eternal city, with its unforgettable historical monuments known all over the world could represent the most valuable setting for fruitful discussions. The main campus of "La Sapienza" University is a real city within the city located in the heart of Rome, an extraordinary place for students and teachers from around the world to meet, exchange and develop new ideas and philosophies. And it all takes place in one of the most breath-taking cities in the world. The Organizers have made many efforts to find comfortable, not expensive and close accommodation (5-10 minutes walking distance far from the Conference venue with rooms at 65-85 or 100-105 Euro per night for three and four stars Hotels, respectively). <http://ceec-tac.org/conf5/accomodation.html> Conference dinner will be hosted at "Palazzo Rospigliosi", an ancient building located in the heart of downtown Rome, across from the Quirinale (official residence of the President of the Italian Republic). The building still houses two splendid private art galleries with works by Botticelli, Signorelli, Carracci and Guercino.

The conference will be preceded by a **Short Summer School on Thermal Analysis and Calorimetry**, with the following lectures:

Jaroslav Sestak (Pilsen, Czech Rep.) Do we know what temperature is while undertaking thermonanalytical experiments?

Luis A. Perez-Maqueda (Sevilla, Spain) Sample Controlled Thermal Analysis in Materials Science

Giuseppe Arena (Catania, Italy) Isothermal Titration Calorimetry: Hints and Tips

Alfred Kallay-Menyhard (Budapest, Hungary) Writing publications in the Journal of Thermal Analysis and Calorimetry



La Sapienza University Campus

In the same day will take place the **International Conference for Young Researchers and Students on Thermal Analysis and Calorimetry** during which students or young researchers up to 27 years will have the opportunity to present their research and compete for the assignment of the following prizes: 1) Prize for the Best Research Study; 2) Prize for the Best Presentation; 3) Prize for Originality in Research.

The registration fee for the Short Summer School on TA&C & International Conference for Young Researchers and Students on TA&C is 40 EUR, whilst the participation is open to everyone participating at the CEEC-TAC5 & Medicta2019. Detailed information here: <http://ceec-tac.org/conf5/summer.html>



Great hall of La Sapienza University of Rome



Palazzo Rospigliosi, venue of the gala dinner

During the conference Lectures by leading scientists, in the field of thermal analysis and calorimetry, from all over the world are planned. Plenary Lectures: **Kestutis Baltakys** (Kaunas University of Technology, Lithuania); **Dimitrios N. Bikiaris** (Aristotle University of Thessaloniki, Greece); **Nobuyoshi Koga** (Hiroshima University, Japan); **Janos Kristof** (University of Pannonia, Hungary); **Vahur Oja** (Tallinn University of Technology, Estonia); **Crisan Popescu** (KAO European Research Laboratory, Germany). Invited Lectures: **Arnon Chaipanich** (Chiang Mai University, Thailand); **Svetlana Danilova-Tretiak** (A.V. Luikov Heat&Mass Transfer Institute, Belarus); **Ahmed El-Sabbagh** (Ain Shams University, Egypt); **Nathanael Guigo** (University of Cote d'Azur, France); **Tiit Kaljuvee** (Tallinn University of Technology, Estonia); **Dana Luca Motoc** (Transilvania University of Brasov, Romania); **Cheila G. Mothe** (Federal University of Rio de Janeiro, Brazil); **Wojciech Marczak** (Institute of Occupational Medicine and Environmental Health, Poland); **Jonjaua Ranogajec** (University of Novi Sad, Serbia); **Adriana Saccone** (University of Genoa, Italy); **Chi-Min Shu** (National Yunlin University of Science and Technology-YunTech, Taiwan); **Pablo Taboada** (University of Santiago de Compostela, Spain); **Paul S. Thomas** (University of Technology Sydney, Australia); **Ranjit K. Verma** (Patna University, India); **Anna Vykydalova** (Slovak University of Technology in Bratislava, Slovakia); **Kseniya Zherikova** (Nikolaev Institute of Inorganic Chemistry, Russian Federation).

Two workshops on “Kinetics and Lifetime Prediction of Materials” and “Advanced Functional Materials” will be held during the four days in Rome. The scientific contributions will be published as full-length articles after independent reviewing in a special number of the **Journal of Thermal Analysis and Calorimetry** (Springer, IF: 2.209; Q2), **Ceramics International** (Elsevier, IF: 3.057; Q1), **Applied Clay Science** (Elsevier, IF: 3.641; Q1) and **Journal of Mining and Metallurgy, Section B: Metallurgy** (UB-TFB, Impact Factor: 1.400; Q2). <http://ceec-tac.org/conf5/publication.html>

A number of **4 Grants for Young Researchers** from Central & Eastern Europe and from Mediterranean area in the field of TA&C and **4 Travel Grants for students** from Central & Eastern Europe and from Mediterranean area are offered by CEEC-TAC together with our sponsors (Application deadline: 1st of April 2019):

<http://ceec-tac.org/conf5/prizes.html>

Abstract submission deadline: 1st of June 2019. <http://ceec-tac.org/conf5/abstract.html>



Swiss Society for Thermal Analysis and Calorimetry ANNUAL MEETING “Thermal Analysis of Materials”, 15 May 2019, ARMASUISSE Science and Technology, Thun, Switzerland

Swiss Society for Thermal Analysis and Calorimetry (STK) organizes its annual meeting 2019 at ARMASUISSE in Thun. The meeting is open to all applications of thermal analysis and calorimetry, and manufacturers will exhibit instruments in these fields. Invited speakers: Dr. Alexandre Sarbach - armasuisse Thun (CH) Energetic materials; Dr. Vincent Mathot - Katholieke Universiteit Leuven (B) Thermal Behaviour of Polymers; Dr. Rémi André - SETARAM Instrumentation, Caluire (F) Calorimetry and energy; Dr. Andrei Rotaru - University of Craiova (RO) Thermal-spectroscopic studies of electroceramic relaxor materials; Dr. Andreas Haselbacher - ETH, Zurich (CH) Energy storage; Dr. Erwin Marti - STK, Basel (CH) Leadership and Management in the Chemical Industry; Dr. Alois Raemy - Nestlé Research Centre, Lausanne (CH) Thermal characteristics of the carbohydrate cellulose in relation to safety. Abstracts deadline is 18.04.2019 (PDF to chimie@hefr.ch; see notice below), whilst registration deadline is 01.05.2019 (registration form to chimie@hefr.ch).



Symposium GECAT “Calorimetry and Thermal Analysis in Modern Chemistry”. San Sebastian, May 29, 2019

The Spanish Royal Society of Chemistry (RSEQ) celebrates its XXXVII Biennial Meeting in San Sebastian, from Sunday, May 26 to Thursday, May 30, 2019, at the Kursaal Congress Center. Drs. Claudio Palomo and Mikel Oiarbide are the local managers of the organization, and Claudio Palomo chairs the Scientific Committee. The information will be updated in <http://bienal2019.com/simposios.php>

The Symposium “Calorimetry and Thermal Analysis in Modern Chemistry” of the Specialized Spanish Group on Calorimetry and Thermal Analysis (GECAT) will be conducted on May 29 and will be coordinated by Drs. Marta Fernández-García and Alexandra Muñoz-Bonilla.

Prof. Giuseppe Arena from the University of Catania will be our invited speaker with the title “Can a well-designed ITC experiment provide information on the speciation of supramolecular compartments?”. Contributions to this event will be welcome.

Joan Josep Sunyol



**50èmes Journées de Calorimétrie et d'Analyse
Thermique, 3-5 June 2019, St-Valéry-en-Caux, France**

The EIRCAP research team of the GPM laboratory (Groupe de Physique des Matériaux UMR CNRS 6634, Université de Rouen Normandie), and the LSPC laboratory (Laboratoire Sécurité des Procédés Chimique EA4704, INSA Rouen), are pleased to welcome you to Normandy for the 50th edition of JCAT. We designed JCAT50 as a shorter, modern, connected and self-focused event, in a place that is definitely more relaxing compared to the hectic city of Rouen.

We invite you to join us in Saint-Valéry-en-Caux, at the Hôtel du Casino, in front of the harbor.

<https://www.hotel-casino-saintvalery.com/>

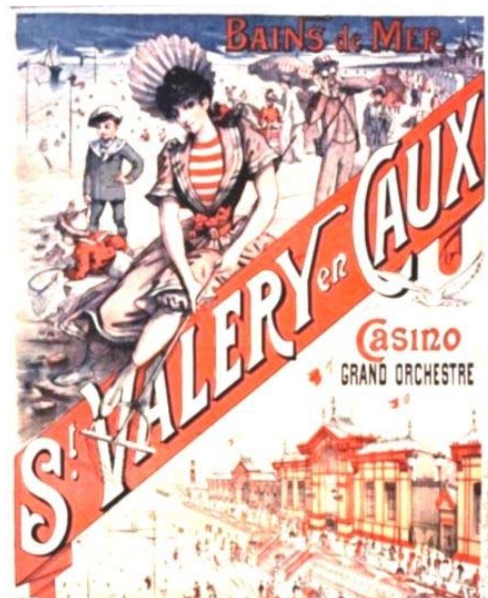
The registration fees include everything but the travel. We will have breakfasts, lunches, dinners and coffee breaks together, in the same place, and there will be room for conferences, posters and commercial exhibitions. The Gala dinner will take place in the Casino, a few meters from the beach. We will also visit one of the most beautiful villages in France (Veules-les-Roses). The number of rooms is limited, wait no more... register!

<https://www.azur-colloque.fr/DR19/inscription/inscription/38/fr>

A Twitter account dedicated to the event has been created, do not hesitate to follow it and retweet! <https://twitter.com/JCAT50rouen>

A short video of the event will be uploaded on our YouTube channel:

<http://www.youtube.com/channel/UCMCTzUK0a0AgTGOlpM-8SA>



The symposium allows researchers and industrials to talk about their work and exchange on the latest news about equipment, techniques and methodologies in the field of calorimetry and thermal analysis. Young researchers will present their activities to an audience of experts. An award will be attributed to the best poster. A session of short-courses is taking place on the first day. The main topics are Polymers and Process safety, but other topics related to thermal analysis and calorimetry will be more than welcome.

Send your abstract to JCAT50@univ-rouen.fr giving your preference (ORAL or POSTER).

Abstract Deadline: April 19th, 2019

Registration Deadline: April 26th, 2019

More information at <https://www.ammelecap.com/jcat50>

Antonella Esposito

Kalorimetrietage, 12-14 June 2019, Braunschweig, Germany



Organised by the Gesellschaft für Thermische Analyse e.V. (GEFTA) and by Physikalisch-Technische Bundesanstalt (PTB) the 23rd Kalorimetrietage will be held at Braunschweig, from 12th to 14th June 2019. The conference is dedicated to all aspects of calorimetry and its applications in chemistry, physics, biology, medicine, industry, and environmental sciences. Presentations from other fields of experimental thermodynamics are also welcome. The scientific programme will be accompanied by an exhibition of calorimetric instruments from manufacturers active in this field.

Confirmed Plenary Lectures: Fundamentals of calorimetry, **W. Buck** (PTB Berlin): Redefinition of the SI unit Kelvin and its realization; Life sciences, **O. Braissant** (Univ Basel): tbd; **Jonathan Bradford** Chaires (Univ Louisville, TE, USA): Calorimetry inside and outside the box; **T. Maskow** (UFZ Leipzig): The future of biocalorimetry and biothermodynamics as seen by a biotechnologist; **Jose Sanchez-Ruiz** (Univ Granada, Spain): General principles and selected applications of scanning calorimetry: ultrafast folding, kinetic stability and ancestral proteins; **Peter West** (Tech Univ Denmark, Lyngby): tbd; **Roland Winter** (Tech Univ Dortmund): Pressure Perturbation Calorimetric Studies of the Effect of Osmolytes and Crowding on the Stability and Solvation of Biomolecular Systems; Renewable energy carriers, **C. Paetz** (Hydrogenious Technologies*, Erlangen): Liquid Organic Hydrogen Carrier (LOHC) – enabling large scale hydrogen distribution and sectoral integration; **F. Mertens** (Tech Univ Freiberg): New findings from the WeNDeLIB project on the thermodynamic characterisation of electrode materials for Lithium ion batteries; **H. J. Seifert** (KIT Eggenstein-Leopoldshafen): Calorimetric studies of lithium-ion batteries and their materials

Further information @ <https://www.kalorimetrietage.ptb.de/invitation.html>



Summer School and Workshop in Calorimetry and Thermal Analysis 2019, Calorimetry and thermal methods in material science, June 16 - 21, 2019, Lyon, France

The school will be held on the beautiful site of Fourvière Hill in Lyon, close to the Basilique de Fourvière and Roman Theater: Centre Jean Bosco, 14 rue Roger Radisson, 69005 Lyon, France.

There will be two parallel sessions (one in French, one in English), in two different classrooms for French and English speaking people.

Registration on Sunday 16 afternoon, beginning of the summer school on Monday 17 morning, end of the summer school on Friday 21 afternoon (around 4 pm).

For any question, please contact: Dr. Aline AUROUX

CNRS, Institut de Recherches sur la Catalyse et l'Environnement de Lyon

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In 2019 the journal JTAC is celebrating its 50th anniversary. The Journal of Thermal Analysis and Calorimetry (JTAC) launched a new thermoanalytical conference series in 2017 which is coming to its upcoming episode next June. During the five decades of publishing, a global community has formed around JTAC, and we wished to create an opportunity, where our editorial board, authors,

reviewers, supporters, and all those who are interested in this wonderful field, can meet personally.

The conference is aimed to be an international forum for presenting the latest results on the theory, methodology and applications of thermal analysis and calorimetry through plenary, invited and contributed lectures and posters.

Plenary speakers: **Barbara Pacewska**, Warsaw University of Technology, Poland; **Michael Feist**, Humboldt University Berlin, Germany; **Wei-Ping Pan**, Western Kentucky University, USA; **György Pokol**, Budapest University of Technology, Hungary;

Invited speakers: **Guy Van Assche**, Vrije Universiteit Brussel, Belgium; **Dario Cavallo**, University of Genoa, Italy; **Ali Chamka**, Prince Mohammad Bin Fahd University (PMU), Saudi Arabia; **Stefano Vecchio Cipriotti**, Sapienza University of Rome, Italy; **Omid Mahian**, Ferdowsi University of Mashhad, Iran; **M. Mohanraj**, Hindusthan College of Engineering and Technology, Coimbatore, India; **Michelle Gonçalves Mothé**, Federal University of Rio de Janeiro, Brazil; **Riko Ozao**, Waseda University, Japan; **Martin Palou**, Slovak University of Technology, Bratislava; **Géza Regdon**, University of Szeged, Hungary; **Perla Relkin**, Agro Paris Tech, France; **Jaroslav Sesták**, West Bohemian University, Czech Republic; **Chi-Min Shu**, National Yunlin University of Science and Technology (YUNTECH), Taiwan; **Joan Josep Suñol**, Universitat de Girona, Spain; **Katalin Mészáros Szécsényi**, University of Novi Sad, Serbia; **Qiang Xu**, Nanjing University of Science and Technology, China; **Maria Zaharescu**, Institute of Physical Chemistry of the Romanian Academy, Bucharest, Romania; **Irina Zvereva**, Saint-Petersburg State University, Russia.

The event will take place at a newly revamped 4-star wellness hotel on the River Danube: Danubius Hotel Helia a fully equipped conference hotel with all the facilities to host top quality professional events. The nearby Margaret Island offers a host of recreational activities – from cycling, tennis and swimming to relaxing walks in its beautiful parks. The hotel's thermal bath is fed by natural thermal water from Margaret Island's springs.

Following the tradition of previous international conferences on thermal analysis and calorimetry, the Organization Committee of JTACC-V4 has decided to establish and present the JTACC-V4 Young Scientist Award to a young scientist who works in the field of thermal analysis and calorimetry and has achieved outstanding results contributing significantly to the development of the field. The winner of the Award will present his/her lecture at one of the Plenary Sessions. The Award consists of a plaque and covering the costs of Conference registration. Candidates must be under the age of 35 as of December 31, 2018.

More information @ <https://jtac-jtacc.akcongress.com/>



JTAC 2019 Congress's venue



XXII International Conference on Chemical Thermodynamics in Russia, Saint Petersburg, 19-23 June, 2019

The XXII International Conference on Chemical Thermodynamics will be held in Saint Petersburg next June, below the Topics:

Sec 1_Development of General Methods and Tools of Chemical Thermodynamics: New Experimental Techniques, Theory and Computer Simulation; Sec 2_Thermodynamics of Liquids, Fluid Mixtures, and Phase Equilibria; Sec 3_ Thermochemistry and Databases; Sec 4_Thermodynamics of interfacial and confined phenomena; Sec 5_ Thermodynamics of Functional

Materials and Engineered Self-Assembly; Special Session "100 Years from Birthday of Acad. Mikhail M. Schultz".

Confirmed Speakers: Thermodynamics and Kinetics of Biochemical and Chemical Reactions, **Gabriele Sadowski**, Dortmund Technical University, Germany; Aqueous Solutions for a Circular Economy, **Joao Coutinho**, University Aveiro, Portugal; Phase Equilibria in Reactive Biocatalytic Processes, **Irina Smirnova**, Hamburg-Harburg University, Germany; Modified Poisson-Boltzmann Equations with Explicit Account of Polarizable Impurities in the Context of Electric Double Layer Theory, **Yuri Budkov**, Higher School of Economics, ISC RAS, Russia; Mesoscopic Non-Equilibrium Thermodynamics of Organic Liesegang Rings, **Ekaterina V. Skorb**, ITMO University, Russia; Thermochemistry of Water Vapor/Refractory Oxide Reactions at Elevated Temperatures, **Nathan Jacobson**, NASA, USA; Free Energy Calculation and Local Structure: Mixing Two Liquids in Computer Simulation, **Abdenacer Idrissi**, Lille University, France; Thermodynamics of Fluid Polyamorphism, **Mikhail Anisimov**, University of Maryland, USA

Further information @ <https://events.spbu.ru/events/rcct2019>

46th Annual NATAS Conference, August 5-9, 2019, Newport, RI, USA

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 2019 NATAS



Conference at the beautiful Gurney's Resort and the University of Rhode Island. 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, Instrument Exhibition and Conference Banquet.

Further information @ <http://www.natasinfo.org/>



46th Annual NATAS Conference's venue

Consiglio Direttivo AICAT • Consiglio Direttivo GICAT



Associazione Italiana
di Calorimetria e
Analisi Termica

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Prof.ssa Michelina Catauro, Tesoriere
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Prof. Andrea Melchior
Prof. Stefano Vecchio Cipriotti (per cooptazione)
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Gruppo Interdivisionale
Calorimetria e Analisi Termica
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Prof.ssa Maria Rosaria Tinè (delegata dalla Sez. Chimica Fisica)

Come iscriversi all'AICAT

La scheda di iscrizione può essere inviata al Presidente:

Prof. G. Arena, Dipartimento di Scienze Chimiche, Università degli Studi di Catania, Viale A. Doria, 6, 95125 Catania e-mail: garena@unict.it Tel. +39.095.73.85.071

oppure, insieme al pagamento della quota biennale (€ 50,00 per le persone fisiche, € 400,00 per Enti o Industrie) inviato tramite vaglia/assegno al Tesoriere:

Prof.ssa M. Catauro, Dipartimento DII, Università degli Studi della Campania Luigi Vanvitelli, Via Roma 29, Aversa email: michelina.catauro@unicampania.it

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Scheda di Iscrizione: <http://www.aicat-gicat.it/doc/Subscription%20Form.rtf>

Come iscriversi al GICAT

Nell'ambito della iscrizione annuale alla Società Chimica Italiana, oltre alla scelta della Divisione cui afferire, può essere formulata anche l'adesione ai Gruppi Interdivisionali, nella fattispecie bisogna optare per il Gruppo Interdivisionale di Calorimetria ed Analisi Termica

Scheda Iscrizione: <https://www.soc.chim.it/iscrizione/new>