AICAT notizie

AICAT-GICAT news

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E' passato poco piu di un anno da quando decisi di mettermi a lavorare sul progetto di far rivivere il Bollettino AICAT. Non sta a me dire se le mie intenzioni siano andate a buon fine, di certo l'uscita di questo terzo numero certifica che il progetto è ancora in piedi e, viste le note di apprezzamento ricevute soprattutto dai colleghi stranieri (cosa che non avrei mai creduto essendo il Bollettino scritto in italiano), da questo numero presenta la novità di alcuni contributi in inglese, che personalmente ..,continua

About one year ago I decided to start the project of the AICAT Bulletin re-editing. I am not sure about the success, or not, of the initiative but the publication of this third issue certifies that the project is still standing. Given the positive feedbacks received, mainly from foreign colleagues (which I would never have believed being the Bulletin written in Italian), from this issue we present the novelty of some contributions in English, which I personally hope will grow more and more...to be continued

In questo numero

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

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…continua dalla prima

Ignazio Blanco

… spero possano crescere sempre di piu. L'AICAT-GICAT da sempre ha scelto l'inglese come lingua ufficiale per i propri congressi e quindi credo sia una naturale evoluzione che questo Bollettino diventi sempre piu internazionale nella lingua e nei contenuti. Scrivendo di contenuti, spiace aprire con una brutta notizia come quella della scomparsa del Professore Jose M. Criado la cui figura viene ricordata in questo numero dal collega ed amico Professore Luiz Pérez Maqueda. Sfogliando il Bollettino oltre alle rubriche ormai consolidate, quali le pubblicazioni italiane sul Thermochimica Acta e sul Journal of Thermal Analysis and Calorimetry, l'agenda degli appuntamenti nazionali ed internazionali, continueremo il nostro giro tra le sedi italiane della Calorimetria e dell'Analisi Termica con il Prof. Cesaro, già Presidente dell'AICAT e Chairman dell'ESTAC, che ci descrive la sede di Trieste. Infine come promesso spazio alla Calorimetria e all'Analisi Termica Internazionale con reports dall'11° Congresso Brasiliano di Analisi Termica e Calorimetria, dal meeting annuale della Società Svizzera di Calorimetria ed Analisi Termica, dal 49° Congresso Francese di Calorimetria ed Analisi Termica, dalla XX Conferenza della Società di Calorimetria Biologica e dalla Summer School in Calorimetria ed Analisi Termica di Lione. L'Associazione si prepara a dare il proprio contributo scientifico al prossimo Congresso ESTAC che si terrà in Romania a fine agosto, diversi saranno gli associati che hanno confermato la propria partecipazione sia in forma di presentazioni orali che di poster e soprattutto nel corso del Congresso il GICAT sarà onorato di vedere assegnato al proprio Coordinatore, Prof. Lazzara, il Judit Simon ESTAC Award. Il culmine calorimetrico/termico di questo 2018 si avrà però a Pisa dove, dal 17 al 19 Dicembre, grazie all'impegno della Professoressa Tinè, L'AICAT-GICAT celebrerà il 40° Congresso Nazionale. Vi aspettiamo quindi numerosi sotto la Torre pendente per discutere di Calorimetria ed Analisi Termica. Nel ringraziare la Professoressa Mothè ed i Professori Brodard, Cesàro, Favergeon, Pérez Maqueda, Skoczowski, Sunol e Vecchio Ciprioti non mi resta che augurarvi una buona lettura.

Ignazio Blanco

…from the first page

The AICAT-GICAT has always chosen English as the official language for its congresses and therefore I believe it is a natural evolution that this Bulletin will become more and more international in language and content. Writing of contents, I am really sorry to begin with a sad news like that of the passing of Professor Jose M. Criado whose figure is mentioned in this issue by his colleague and friend Prof. Luis Pérez Maqueda. Apart the well-established columns, such as the Italian publications on Thermochimica Acta and on Journal of Thermal Analysis and Calorimetry, the national and international events agenda, we will continue our tour of the Italian Calorimetry and Thermal Analysis venues with Prof. Cesaro, former President of AICAT (1991-93) and former Chairman of ESTAC (1994-98), who describes Trieste. In this issue, as promised, you can also find International Calorimetry and Thermal Analysis contents with reports from the 11th Brazilian Congress of Thermal Analysis and Calorimetry, from the annual meeting of the Swiss Society of Calorimetry and Thermal Analysis, from 49th edition of the French Congress of Calorimetry and Thermal Analysis, from the XX Conference of International Society for Biological Calorimetry and from the Summer School in Calorimetry and Thermal Analysis of Lyon. The Association is preparing to give its scientific contribution to the next ESTAC Congress to be held in Romania at the end of August. Many AICAT-GICAT members will have confirmed their participation and overall during the ESTAC Congress the GICAT will be honored to see the Judit Simon ESTAC Award assigned to its Coordinator, Prof. Lazzara. The calorimetric / thermal peak of this 2018 will however be in Pisa where, from 17 to 19 December, thanks to the commitment of Professor Tinè, AICAT-GICAT will celebrate the 40th National Congress. We are therefore waiting for you under the Leaning Tower to discuss about Calorimetry and Thermal Analysis. In thanking the Professors Mothè, Brodard, Cesàro, Favergeon, Pérez Maqueda, Skoczowski, Sunol and Vecchio Ciprioti, I can only wish you a good read.

Ignazio Blanco

Obituary of Prof. José Manuel Criado Luque

Last February 27, Prof. José Manuel Criado Luque passed away at the age of 73. Prof. Criado was a very active member of the thermal analysis community for about 50 years and he was working till his very last days.

Prof. Jose M. Criado

Prof. Criado was born in Seville (Southern Spain) in 1944 and he spent most of his life in his hometown. There, he studied Chemistry and got his PhD in the Inorganic Chemistry department under the supervision of Profs. Trillo and Gonzalez-García. Also, at this university he held several positions as assistant and associate professor. In 1972, he joined the National Research Council of Spain, being promoted to full professor in 1986. This same year, he was one of the founder members of the Materials Science Institute of Seville.

Prof. Criado was very much involved in the experimental study of solid-state reactions. For his research, he designed and constructed a large number of thermal analysis instruments, which used different experimental signals such as mass, heat flow, dimensions, electrical properties, partial or total gas pressure in the surrounding, for monitoring these reactions. Moreover, he studied not only conventional heating but also microwave heating. He was also very much involved in the use of sample controlled thermal analysis in his research. Using all these methods he managed to get reliable experimental data representative of the reactions and where heat and mass transfer phenomena were minimized. Moreover, he developed analytical procedures for extracting the kinetic parameters form these data. Among the different procedures proposed by professor Criado, we could mention different types of master curves, combined kinetics, deconvolution procedures, etc. Also, he stressed the limitations and advantages of the different heating procedures on the kinetic analysis of experimental data. In all these topics, he published more than 240 papers and book chapters. He supervised 13 PhD students. Among his prices and recognitions, he received the Alsonso X el Sabio prize and the medal from the University of Pardubice. He was member of the editorial boards of Thermochimica Acta and Journal of Thermal Analysis and Calorimetry and councilor of the International Confederation for Thermal Analysis and Calorimetry (ICTAC).

Despite the fact that Prof. Criado lived most of his life in Seville, he was visiting scientist and professor in a number of prestigious international institutions such as University of Perugia (Italy), Stanford University (USA), CNRS Thermodynamics and Microcalorimetry Center in Marseille (France), University of Salford (UK), Macaulay Research Institute (UK), Institute for General and Analytical Chemistry of the Technical University (Hungary), Institute of Inorganic Chemistry (Czech republic), University of Udine (Italy), University of Cagliari (Italy), University of Chile and University of Copiapó (Chile), etc. Moreover, he had a for his entire career a large number of international collaborators from countries such as Czech Republic, Japan, Chile, Russia, Rumania, Poland, France, Italy, Tunisia, etc.

Prof. Criado was also a mentor for a large number of young scientists. He enjoyed discussing for hours with his co-workers. It is not rare that a number of his students and postdocs have positions as permanent scientists and professors in Spain and abroad.

Luis Pérez Maqueda

Le sedi: Trieste

Professor Attilio Cesàro, former President of AICAT (1991-93) and former Chairman of ESTAC (1994-98)

Quando giunsi la prima volta a Trieste, nel lontano 8 settembre 1968, la città era a me nota da qualche scorcio di cartolina e dalle vicende storiche delle due guerre mondiali. Dopo la guerra il limbo di un territorio diviso e poi il 26 ottobre del 1954, tre settimane dopo il Memorandum di Londra, Trieste "tornò" all'Italia. Furono anni di lacerazioni di confine che trovai molto esasperate dalle storie personali, dure da dimenticare per la gente del luogo tra cui avrei dovuto inserire il mio bagaglio, già allora multiculturale dopo quasi due anni in un'università della California. E anche a Trieste c'era un'Università di cui onestamente non avevo immaginato l'esistenza fino al febbraio di quel '68, quando ebbi la prima proposta di unirmi al gruppo di Chimica delle Macromolecole all'Università di Trieste. La storia dei cambiamenti di Trieste è emblematica per il modo stesso in cui la città ha saputo capitalizzare l'apporto di contributi esterni, che vorrei esplicitare in "foresti", quindi non di triestini "patocchi". La città tutta è così diventata un laboratorio di sperimentazione, i cui risultati passano, decennio dopo decennio, attraverso vari esempi.

Iniziamo dalla istituzione nel 1964 di un centro internazionale di fisica che permettesse la collaborazione degli scienziati di tutti i paesi del mondo (ICTP - International Centre for Theoretical Physics - Centro Internazionale di Fisica Teorica), a cui si aggiunse, dieci anni dopo, la SISSA (Scuola Internazionale Superiore di Studi Avanzati) la prima istituzione in Italia a rilasciare il titolo di Ph.D. Citiamo poi la più grande rivoluzione umana nel campo della psichiatria, con cui Franco Basaglia con il sostegno della Provincia di Trieste (Michele Zanetti e Ezio Martone) sperimentò e poi nel 1977 attuò la chiusura della struttura manicomiale con l'apertura di laboratori di varie attività coinvolgenti molti di noi cittadini "normali", giungendo all'approvazione della legge 180 sulla riforma psichiatrica, ancora oggi considerata tra le più avanzate legislazioni al mondo in materia di salute mentale.

Negli anni '80 l'azione promozionale dell'Università e dell'ICTP portò all'insediamento dell'Area di Ricerca (oggi Area Science Park, il primo in Italia), dell'Accademia delle Scienze del Terzo Mondo (TWAS - Third World Academy of Sciences) ed infine del Centro di Ingegneria Genetica e di Biotecnologia (ICGEB - International Centre for Genetic Engineering and Biotechnology).

Infine, negli anni '90, viene inaugurato il Sincrotrone ELETTRA a Basovizza, il più alto concentrato di tecniche sperimentali con 26 linee di luce, utilizzate nel campo della spettroscopia, spettromicroscopia, diffrazione, scattering, litografia, spettroscopia e microscopia nell'infrarosso, scattering inelastico nell'ultravioletto e mappatura delle bande nei solidi. Oggi questa struttura è in grado di offrire a ricercatori di tutto il mondo l'accesso a sofisticate tecniche per condurre ricerche d'eccellenza.

La sede dell'Istituto di Chimica fino al 1990 (ala destra) in una foto d'epoca 1968-1974

Senza dimenticare le tante altre, innumerevoli iniziative nel tempo messe in atto dal mondo scientifico, così da delineare quello che in un convegno fu definito come il Sistema Trieste. Trieste, infatti, è la città europea con il più alto numero di ricercatori per mille abitanti (37‰ nel 2005), e con una delle maggiori concentrazioni di istituzioni scientifiche d'Italia. Con un po' di volo pindarico non può considerarsi estranea a questa evoluzione della città, anche l'elezione di Riccardo Illy a sindaco nel 1993, riconfermato nel 1997, primo sindaco di una coalizione che rompeva il tradizionale posizionamento della popolazione in area di destra o di autonomia.

L'università di Trieste ai giorni nostri

In una frase, gli scienziati a Trieste hanno trasformato l'atavico "no se pol" in un moderno "a Trieste se pol".

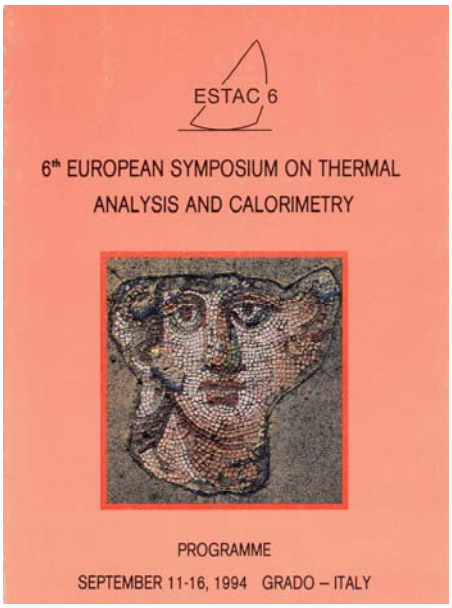
Passando dalla storia della città a quella della ricerca, potremmo formalmente collocare l'inizio delle attività di ricerca in calorimetria al 1970 quando furono acquistati due microcalorimetri LKB 10700 "batch", grazie ad un finanziamento industriale (SNAM-ENI) erogato al Prof. Crescenzi. Ci fu subito un'epidemia contagiosa che travolse tutto il gruppo di Chimica delle Macromolecole, allora composto da Quadrifoglio, Giancotti, Ciana, Delben, Russo e dal sottoscritto, a cui poi si aggiunsero Manzini e Paoletti, e che abitava "gli scantinati" dell'Istituto di Chimica, nell'Edificio centrale dell'Università in Piazzale Europa. A quel tempo, il periodo di "equilibrazione termica" era lungo, ma con due calorimetri riuscivamo a produrre anche sei misure al giorno, lavorando quasi giorno e notte a turni. Un anno dopo, Crescenzi organizzò un Calorimetry Meeting, con una cinquantina di partecipanti, tra cui a memoria cito (scusandomi per gli altri) Wadso, Franks, Lapanje, Rialdi, ...; inutile dirlo, il tema più rilevante era la possibilità di misurare direttamente l'entalpia in gioco in una reazione, complessazione, interazione, ecc., senza dover passare attraverso le forche caudine dell'equazione di van't Hoff, soprattutto con sistemi (bio)polimerici dove molteplicità di binding e cooperatività erano la regola.

Dal fermento di quegli anni vennero fuori i primi lavori sull'interazione del DNA con antibiotici (intercalazione) e con polilisina ed altre poliammine, oltre a investigare la termodinamica delle soluzioni di modelli di biomolecole e i primi approcci alla termodinamica di polielettroliti. È necessario ricordare che in quel periodo era messa in discussione tutta la filosofia che aveva portato alla descrizione del ruolo dell'acqua nella stabilità conformazionale delle macromolecole biologiche, smontando e rimontando, pezzo a pezzo, il costrutto logico delle interazioni idrofiliche ed idrofobiche tra biomolecole in soluzione acquosa. Tra queste, le dichetopiperazine come modelli di peptidi e la caffeina come modello di basi puriniche, così come lo studio di polielettroliti sintetici e naturali fu lo strumento indispensabile per comprendere cooperatività ed interazione a larga scala di acidi nucleici, proteine e polisaccaridi. Queste e tante altre biomolecole sono state allora ed anche dopo al centro delle nostre attenzioni di ricerca.

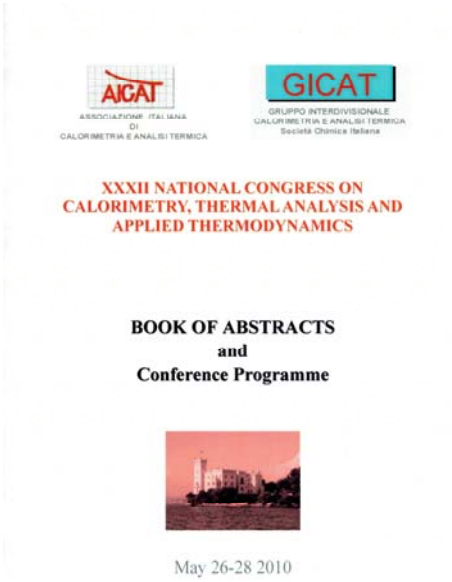
A Trieste c'erano anche altri gruppi di ricerca attivi nello studio di proprietà termodinamiche di materiali di interesse industriale, polimeri con Kikic e Alessi e ceramici con Meriani. La creazione di un network informale di collaborazioni con altri gruppi di ricerca a Padova (Scoffone, Peggion, Palumbo..) a Lubiana (Dolar, Lapanje, Skerianc,..) a Napoli (Barone, Castronuovo, Elia,..) e a Roma dove si era trasferito nel '76 Crescenzi, fu lo sbocco naturale dell'imperativo delle attività di ricerca del gruppo dei trentenni di Trieste.

Non deve meravigliare, perciò, che da Trieste si rispose convinti alla proposta di fondare l'AICAT, appena ipotizzata nel congresso JCAT di Torino (1978) e poi formalizzata con il congresso nel 1979 a Firenze. Tra le note personali non possono mancare i riferimenti al mio coinvolgimento nell'AICAT con l'elezione nel primo Consiglio Direttivo a Roma (1980) e poi la riconferma per il biennio 1982-1983 a Catania (1982). E proprio a Catania fu raccolta la proposta di avere a Trieste il congresso nel dicembre del 1983 dove, con sorpresa e gioia di tutti i convenuti, intervennero anche la bora ed il ghiaccio (ma nel Congresso del 2010 a Trieste giornate stupende di scienza e di cielo!).

Trieste 2010 – L'arrivo alla Trattoria Storica Suban per la Cena Sociale



Copertina del programma scientifico dell'ESTAC 6 organizzato a Grado dalla sede di Trieste nel 1994



Copertina del libro degli Abstracts del Congresso AICAT organizzato a Trieste nel 2010.

Dopo quelle date si ebbero tante altre occasioni di coinvolgimento del gruppo di Trieste (a cui nel frattempo si erano aggiunti Gamini, Rizzo e Urbani) nell'organizzazione e nella partecipazione a scuole a congressi e alle azioni di divulgazione delle attività associative in campo internazionale. Storica fu l'incursione effettuata insieme all'amico e compagno di sempre Pino Della Gatta al convegno ESTAC5 a Nizza in cui, come outsider, scompaginando il disegno teutonico di portare l'ESTAC6 a Monaco, riuscimmo a convincere quasi tutti che il centro dell'Europa era Trieste, anzi Grado, peraltro con scenari e costi molto attraenti. Nell'organizzazione dell'ESTAC6, con una presenza di circa 500 partecipanti, furono coinvolti tanti colleghi di Trieste e di altre sedi (Flor, Sestak, Buri, Rouquerol, Barone, Schiraldi, Della Gatta, Richardson furono i responsabili del programma), oltre ai Chairpersons I. Kikic e A. Cesàro. Così, dopo essere stato eletto Presidente AICAT al Congresso di Bari per il triennio '90-'93, il sottoscritto divenne Chairman ESTAC ('94-'98).

In quegli anni il gruppo di ricerca di polisaccaridi si era arricchito qualitativamente e quantitativamente con l'apporto di molte forze nuove e di laboratori nell'Area di Ricerca di Trieste. Insieme a Sergio Paoletti e a Franco Delben la calorimetria era diventata pane quotidiano con tutte le sue implicazioni sperimentali e teoriche. Nell'università e nei laboratori dell'Area di Ricerca (Poly-bios e successivamente Poly-tech) vennero a formarsi molte figure di rilievo scientifico, come Navarini, Sussich, Cuppo, Tiziani, Bellich (citazione esemplificativa per decennio).

Oggi, guardando al futuro, dobbiamo ritenere che tutta la storia delle attività scientifiche, inclusa la calorimetria, abbia contribuito nel suo spirito migliore per creare a Trieste le condizioni per essere la Città Europea della Scienza nel 2020 con l'organizzazione dell'EuroScience Open Forum (ESOF 2020 - https://www.esof.eu/en/trieste-2020.html).

Attilio Cesàro

#AICAT2018

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

Il prossimo congresso nazionale di Calorimetria, Analisi Termica e Termodinamica Applicata si terrà a Pisa. Chair del Congresso sarà la Professoressa Tinè (già Presidente AICAT dal 2003 al 2007), co-Chair la Professoressa Duce. Sede dell'evento sarà il Centro Congressi Le Benedettine (che offre anche la possibilità di alloggio a basso costo presso la foresteria del Centro). Il Congresso si svolgerà dal 17 al 19 Dicembre 2018. La scadenza per l'invio degli abstracts e per l'early registration è stata fissata al 30 settembre 2018.

Centro Congressi Le Benedettine

Come tradizione ormai consolidata l'AICAT, con il sostegno della famiglia Lucci, assegnerà il **Premio Alberto Lucci** ad una/un giovane ricercatrice/ore italiana/o che si sia distinto nel campo della Calorimetria e/o dell'Analisi Termica. Possono partecipare tutti coloro di età non superiore ai 35 anni alla data di scadenza del bando (15 settembre 2018), le domande corredate dal curriculum vitae, dai titoli scientifici e dall'elenco delle pubblicazioni devono pervenire per raccomandata con avviso di ricevimento e per posta elettronica al PRESIDENTE DELL'AICAT Prof. Giuseppe Arena. L'AICAT assegnerà inoltre 4 borse di studio, del valore di 200,00 € cadauna, per coprire i costi di iscrizione del congresso. Possono concorrere all'assegnazione della borsa Post-doc italiani e stranieri di età non superiore ai 35 anni, alla data di scadenza del bando (15 settembre 2018), che operino nel campo della Calorimetria e/o dell'Analisi Termica. La domanda corredata dal curriculum vitae, dai titoli scientifici e dall'elenco delle pubblicazioni deve pervenire per posta elettronica, recante come oggetto "Richiesta Borsa di Partecipazione AICAT", al PRESIDENTE DELL'AICAT Prof. Giuseppe Arena (garena@unict.it). Notizie ed aggiornamenti sul sito del Congresso http://aicat.dcci.unipi.it/index.php

Piazza dei Miracoli

XL National Congress on Calorimetry Thermal Analysis and Applied Thermodynamics 17-19 December 2018 "Le Benedettine" Congress Center, Pisa, Italy

The XL Italian National Congress on Calorimetry, Thermal Analysis and Applied Thermodynamics will be held in Pisa, at the "Le Benedettine" Congress Center, from 17th to 19th December 2018. The deadline for sending Abstracts and early registration is 30st September 2018. Low-cost accommodations are available at the Congress Center guesthouse. AICAT will provide 4 grants, worth € 200.00 each, covering the registration fees of the congress. Italian and foreign Post-doc students, aged 35 or less at 15th of September 2018, operating in the field of Calorimetry and/or Thermal Analysis can participate for the applications. The application with curriculum vitae, the scientific titles and the list of publications of the applicant must be sent by e-mail (subject "Grant request for AICAT 2018"), to the AICAT PRESIDENT Prof. Giuseppe Arena (garena@unict.it). Further information and news are available on the Congress web site http://aicat.dcci.unipi.it/index.php

#AICAT2018

Articoli italiani su JTAC 2018

January 2018, Volume 131, Issue 1, pp 627–631

Dielectric relaxation of thermotropic liquid crystalline polyesters based on α,ω-alkylene-di-4-hydroxybenzoates and 4,4′-alkylenedioxy-dibenzoic acid

Elizabeth Grillo Fernandes, Elpidio Tombari, Giuseppe Salvetti, Giancarlo Galli, Emo Chiellini

February 2018, Volume 131, Issue 2, pp 843–851

Synthesis and thermal behaviour of phenyl-substituted POSSs linked by aliphatic and aromatic bridges

Ignazio Blanco, Lorenzo Abate, Francesco A. Bottino

April 2018, Volume 132, Issue 1, pp 191–196

Crystallinity of block copolymer controlled by cyclodextrin

Vanessa Bertolino, Giuseppe Cavallaro, Giuseppe Lazzara, Stefana Milioto, Filippo Parisi

April 2018, Volume 132, Issue 1, pp 611–621

Thermodynamic study of mixtures containing dibromomethane Excess and solvation Gibbs energies

Enrico Matteoli, Luciano Lepori, Silvia Porcedda

May 2018, Volume 132, Issue 2, pp 869–877

The dilatometric technique for studying sigma phase precipitation kinetics in F55 steel grade

B. Rivolta, R. Gerosa, F. Tavasci

May 2018, Volume 132, Issue 2, pp 1065–1075

Antioxidant and prooxidant activity of spent coffee extracts by isothermal calorimetry

Nabil Haman, Giovanna Ferrentino, Sebastian Imperiale, Matteo Scampicchio

May 2018, Volume 132, Issue 2, pp 1367–1387

A multi-technique nondestructive approach for characterizing the state of conservation of ancient bookbindings

Stefano Sfarra, Mauro Regi, Mariagrazia Tortora, Cinzia Casieri, Stefano Perilli, Domenica Paoletti

June 2018, Volume 132, Issue 3, pp 1513–1522

Synthesis, thermal and structural characterization of alumina-based pillared α-Ti(IV)hydrogenphosphate

Stefano Vecchio Ciprioti

Articoli italiani su JTAC 2018

June 2018, Volume 132, Issue 3, pp 1601-1615

Thermal behavior and decomposition kinetics of composite solid propellants in the presence of amide burning rate suppressants

Djalal Trache, Filippo Maggi, Ilaria Palmucci

July 2018, Volume 133, Issue 1, pp 123-133

Interaction of Ca, P trace elements and Sr modification in AlSi5Cu1Mg alloys

Jovid Rakhmonov, Giulio Timelli , Giulia Basso

July 2018, Volume 133, Issue 1, pp 413-419

Synthesis and characterization of LaFeO3 powders prepared by a mixed mechanical/thermal processing route

Vittorio Berbenni , Giovanna Bruni, Chiara Milanese, Alessandro Girella, Amedeo Marini

August 2018, Volume 133, Issue 2, pp 869–879

CO_2 adsorption and desorption properties of calcined layered double hydroxides Effect of metal composition on the LDH structure

S. Colonna, M. Bastianini, M. Sisani, A. Fina

August 2018, Volume 133, Issue 2, pp 1085–1092

Sol–gel synthesis and thermal behavior of bioactive ferrous citrate–silica hybrid materials

Michelina Catauro, Daniele Naviglio, Roberta Risoluti, Stefano Vecchio Ciprioti

Articoli italiani su TA 2018

January 2018, Volume 659, Pages 44-54

Simulation of crystallization of isotactic polypropylene with different shear regimes

Roberto Spina, Marcel Spekowius, Christian Hopmann

January 2018, Volume 659, Pages 96-104

Non-isothermal crystallization behavior, rheological properties and morphology of poly(ε-caprolactone)/graphene oxide nanosheets composite films

Jasim Ahmed, Giorgio Luciano, Ilaria Schizzi, Yasir Ali Arfat, Sofia Maggiore, T. Lidia Arocki Thaic

XI CBRATEC 11th Brazilian Congress of Thermal Analysis and Calorimetry April 22-24, 2018, Rio de Janeiro, Brazil

Prof. Cheila G. Mothé President of Associação Brasileira de Análise Térmica e Calorimetria

The 11th Brazilian Congress of Thermal Analysis and Calorimetry was held at Grand Mercure Rio de Janeiro Copacabana Hotel, in Rio de Janeiro, Brazil. It was organized by the Brazilian Association of Thermal Analysis and Calorimetry (Figure 1) and co-organized by the Federal University of Rio de Janeiro, the Federal University of Rio Grande do Norte, the Federal University of Sergipe, the State University of São Paulo, the Federal University of Minas Gerais and the Federal University of Rio Grande do Sul. Consolidated as the most important event in the area of Thermal Analysis 2018, it encompassed in its scope: food, life science, calorimetry, catalysts, technologic processes, material science, nanotechnology, energetic materials and explosives, fuels, biofuels, drugs and polymorphism, polymers, petrochemistry, organic chemistry, inorganic chemistry, ceramic and earth science, thermodynamics, thermochemistry and kinetics. The congress had more than 300 participants from different countries such as: Germany, Cuba, Colombia, United States, France and Hungary and from the Brazilian states: Amazonas, Bahia, Brasília, Mato Grosso, Mato Grosso do Sul, Minas Gerais, Pará, Paraíba, Paraná, Pernambuco, Rio de Janeiro, Rio Grande do Norte, Rio Grande do Sul, Santa Catarina, São Paulo, Sergipe and others, which included researchers, professors, engineers, students, technicians and scientific cooperation by the national and international thermal analysis community. It was designed to be the driver of the leap into a new level regarding science, technology and innovation in themes as Food, Pharmaceutics, Polymers and Petroleum, with a view to the development of the future of our country and South America.

Rio de Janeiro city, Brazil (Congress opening table).

Photo of participants 11th Brazilian Congress of Thermal Analysis and Calorimetry.

The opening of the Congress was held by the organizing committee: Cheila Mothé, president of ABRATEC, Denise Nascimento, vice dean of the Federal University of Rio de Janeiro (UFRJ), Marisa Spirandeli, professor at UNESP, Fernando Fertonani (UNESP), Pierre Delmoro (Mettler Toledo) and Michelle Mothé (UFRJ). The meeting was a complete event schedule, including the presentation of 18 lectures and mini-courses, scientific papers selected for oral (162) and poster (48) presentations and honorable mention awards to the three best entries, material with information and equipment exhibition by sponsors/companies and delivery of material to the participants of the congress, which included a folder with brochures and corporate brochures, informational materials, conference proceedings, and a flash drive of the congress proceedings. The 11th Brazilian Congress of Thermal Analysis and Calorimetry contributed with following conferences, such as: "Thermal Analysis: past, present and expected developments" which was brilliantly presented by Jean Rouquerol, who opened the talks on the first day of the event, April 22, 2018.

Photo of participants 11th Brazilian Congress of Thermal Analysis and Calorimetry.

Poster session at 11th Brazilian Congress of Thermal Analysis and Calorimetry.

On the second day of the event, April 23, 2018, the work began with the lecture "Trends in thermal analysis" presented in a very informative way by Imre Miklós Szilágyi, followed by César Liberato Petzhold with a lecture on "Application of thermal analysis techniques in the investigation of polymerization kinetics and the properties of acrylamide-based dentin adhesive systems" and Kadine Mohomed presented "Thermal management solutions: understanding the tools and measurements available for determining a material`s specific heat capacity, heat storage and heat transfer properties". After the coffee-break, the lecture was delivered by Gabriel Lima Barros de Araújo with "Crystalline, amorphous and nanostructured pharmaceutical systems: thermoanalitic approaches to accelerate pharmaceutical development", followed by the presentation of Cheila Gonçalves Mothé on "Biokeratin: thermal analysis on the characterization of the productive chain with sustainability in the cosmetics industry" and Dirk Walter, on "Thermal transformation from lanthanum hydroxide – Insight into a complex solid state reaction". The afternoon was started by the lecture by Jo Dweck on "Dimensional and conventional thermal analysis from transformation Images obtained on real time". The third day, April 24, 2018, began with the lecture performed by Rufina Alamo on "Understanding melt-memory of commercial polyolefins", followed by "Thermal analysis applied to the characterization of diesel and biodiesel" presented by Amanda Gondim and "Thermal properties of ultra-high molecular weight polyethylene nanocomposites", performed by Maria de Fatima Marques. Altivo Pitaluga Jr. presented "The increasing importance of thermal analysis for the food sector", followed by Diego de Holanda Souza, with the lecture "Differential scanning calorimetry in the kinetic study of isothermal crystallization of poly (lactic acid) nanocomposites". Clóvis Augusto Ribeiro presented "Evolution in obtaining kinetic parameters of complex reactions" and Márcio Nele presented "Effect of the nature of paraffins on the properties of W/O emulsions". The afternoon was started by Fernando Fertonani with the lecture "Solid state reactions of Hg and noble metals and alloys" and the lecture "Calorimetry – a useful technique for thermal hazard studies and investigation of batteries", presented by Ekkehard Fuglein. In addition to the lectures on the second and third day of the Congress, the following mini-courses were performed: "Fundamentals of Thermal Analysis", by Luci Machado and "Application in Thermal Analysis", by Ana Claudia Medeiros and Cícero Aragão. The Brazilian Association of Thermal Analysis and Calorimetry (ABRATEC) acknowledges the following sponsors: Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES), Brazilian Council for Scientific and Technological Development (CNPq), Foundation for Research Support- São Paulo (FAPESP) and equipment companies such as: dpUNION, Mettler Toledo, Netzsch and TA Instruments. The next meeting, in other words, The 12th Brazilian Congress of Thermal Analysis and Calorimetry, will take place in 2020, in Paraiba, northeast of Brazil.

For more information: www.abratec.com.br

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STK 2018 The annual Meeting of the Swiss Society for Thermal Analysis and Calorimetry May 15, 2018, Basel, Switzerland

Prof. Pierre Brodard President of the Swiss Society for Thermal Analysis and Calorimetry

The Swiss Society for Thermal Analysis and Calorimetry (Schweizerische Gesellschaft für Thermoanalytik und Kalorimetrie - STK) was founded in 1975, with the aim to bring together scientists from universities and industries active in these fields.

STK held its annual meeting 2018 at F. Hoffmann - La Roche in Basel on Tuesday May 15th. The meeting was devoted to Innovation in Thermal Analysis and Calorimetry, with a focus on pharmaceutical products. Thanks to the hard work of the local organizer Jürgen Thun (Laboratory Supervisor Thermal Analysis at F. Hoffmann - La Roche) and with the full support of the scientific committee (Marie-Agnès Aeschlimann, Pierre Brodard, Patrick Furrer, Angela Hammer, Rolf Hilfiker, Francesco Mascarello, Aloïs Raemy, Francis Stoessel and Jürgen Thun), about 60 participants from academia and industry enjoyed 10 excellent talks and discovered instrumental novelties from 5 exhibitors (Setaram, Mettler-Toledo, ProSense, Linseis & MeltPrep). The morning started with the first invited talk by Rolf Hilfiker from Solvias AG (Switzerland), who gave us a masterful overview of "The challenge to find a new viable solid form - From screening to characterization, selection and scale-up".

P. Brodard, J. Rouquerol, R. Hilfiker, F. Mascarello, F. Stoessel

P. Brodard, A. Raemy, C. Guinand, M.-A. Aeschlimann, F. Stoessel

For the second invited talk of the day, we had the honor to hear Duncan Craig from University College London (UK) telling us about Thermal analysis of pharmaceuticals: new approaches to new problems. After that, two interesting contributed talks by Eric Ofosu Kissi (University of Copenhagen, Denmark) and Bertrand Roduit (AKTS AG, Switzerland) were held. After lunch and General Assembly, the president of STK Pierre Brodard presented the STK AWARD 2018 to Jean Rouquerol, Directeur de Recherche Emérite au CNRS (Laboratoire MADIREL - Aix-Marseille Université, France), for his outstanding contribution to the fields of calorimetry and thermal analysis. Prof. Dr. Rouquerol then held his award presentation, a superb and systematic survey of Modernity of calorimetry. Christian Lautz from F. Hoffmann-La Roche (Switzerland), our last invited speaker of the day, went further into modernity with "The integrated calorimeter - Combining calorimetry and PAT measurements". Angela Hammer (Mettler-Toledo AG, Switzerland) completed this first afternoon session with a contributed talk. Some cups of coffee later, Marie-Agnès Aeschlimann presented the STK PRIZE FOR YOUNG SCIENTIST 2018 to Charles Guinand from AKTS AG (Switzerland), for his work on accumulation in fed-batch reactor with multiple reaction scheme. Dr. Guinand's award speech on "One number to rule them all: a reactor management strategy was a perfect example of how bright graphical illustrations can enlighten complex concepts with simplicity!". Finally, Daniel Treffer (MeltPrep GmbH, Austria) and Heinz Renner (Linseis Messgeräte GmbH, Germany) rounded up this final session by showing their latest instrumental developments.

The very good attendance with several international guests, as well as the always strong interest from scientists working in industry, proved that Thermal Analysis and Calorimetry is as actual and relevant as ever in Switzerland. This successful meeting was made possible thanks to all our dedicated speakers, to whom we express our warmest thanks once again.

Pierre Brodard
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JCAT49 The 49th edition of the French Congress of Calorimetry and Thermal Analysis May 22-25, 2018, Saint-Etienne, France

The 49th edition of the French Congress of Calorimetry and Thermal Analysis (JCAT49) was organized in Saint-Etienne from 22 till 25 May 2018 by the SPIN center - Mines Saint-Etienne and the laboratory Georges Friedel (UMR CNRS 5307).

Prof. Loïc Favergeon, for the organizing committee of the 49th edition of the French Congress of Calorimetry and Thermal Analysis

First day of the JCAT49 has been devoted to short courses. Four courses dealing with the main techniques of thermal analysis (Rémi André – Setaram Instrumentation), the determination of heat capacity by means of DSC (Jean Grenet, Université de Rouen Normandie), the kinetic study of solid-gas reactions (Loïc Favergeon - Mines Saint-Etienne) and the differential heat flowmeters calorimetry (Jean Rouquerol – Aix-Marseille University). About 15 researchers, mostly PhD students or postdoctoral researchers have attended these courses. The congress from 23 till 25 May gathered 60 researchers, including about fifteen PhD students and seven thermal analysis suppliers attended the various sessions.

These sessions were organized around the following themes: "high-temperature reactivity", "materials for health", "instrumentation and methods", "polymers" and "fluids and materials characterization".

The participants were welcomed by Professor David Delafosse, Director of Research and Innovation of Mines Saint-Etienne. Four keynote of Professor Nobuyoshi Koga, Doctor Nathalie Douard, Professor Henri Buscail and Professor Dimitri Ivanov, and 24 oral communications presented as well by French or foreign researchers as by representatives of the thermal analysis suppliers, contributed to draw up the current situation of the last researches and the last developments in term of instruments and methods. Two poster sessions, with 18 communications by poster, also allowed to enrich discussions around both the thermal analysis and the calorimetry.

Professor Rouquerol rewards young researchers

The AFCAT-SETARAM "Jacques Mercier" award, given every two years to a researcher of less than 35 years for his works and his implication in the field of calorimetry and thermal analysis, was awarded this year to Nicolas Caussé (see picture, from left to right : Eric Dantras, Rémi André, Nicolas Caussé, Jean Rouquerol) of the laboratory CIRIMAT, INP Toulouse - ENSIACET. The conference pronounced by the award-winner had for title: "Developments in thermal analysis for the study of the functional properties of polymer based complex systems".about fifteen PhD students and seven thermal analysis suppliers attended the various sessions. An award of the best communication by poster for a young researcher (PhD student or postdoc student) was given to Salah Akkache, LGF laboratory - Mines Saint-Etienne, for his communication entitled: "thermal analysis for understanding the reaction pathway of decomposition of mixed oxalate".The conference ended by speeches of Professor Jean-Paul Viricelle, Director of the Laboratory Georges Friedel, and Professor Eric Dantras, president of the French Association of Calorimetry and Thermal Analysis (AFCAT).

On a more festive point of view and under very clement weather, the congress participants were able to discover a part of Saint-Etienne history during a stroll in the former streets of the historic city and the first suburbs of the XVIIth century, under the direction of two guides from the Tourist information office. A dinner, in the restaurant "mon jardin secret", Villeboeuf square, was also the opportunity to discuss and to share friendly moments.

Participants of the 49th edition of the French Congress of Calorimetry and Thermal Analysis

The congress participants appreciated the quality, the space and the convenience of the places of Espace Fauriel. The organizers thank the direction of Mines Saint-Etienne for providing these places. They also thank the general services of Mines Saint-Etienne and particularly Thomas Renaudier and Christophe Rivaillon, which have enabled these days to successfully take place. Finally, they thank the Tourist information office of Saint-Etienne for its support during the organization of this congress.polymer based complex systems".about fifteen PhD students and seven thermal analysis suppliers attended the various sessions. An award of the best communication by poster for a young researcher (PhD student or postdoc student) was given to Salah Akkache, LGF laboratory.

Organized by Laurent Delbreilh, Nicolas Delpouve and Eric Dargent of University of Rouen Normandy, the fiftieth edition of the JCAT will take place in Rouen in June, 2019.

For the organizing committee

Loïc Favergeon

XX ISBC, XX Conference of International Society for Biological Calorimetry June 13-15, 2018, Cracow, Poland

Prof. Andrzej Skoczowski, President of International Society for Biological Calorimetry (ISBC) 2016-2018.

On 13 – 15 June 2018 in Cracow, Poland was held XX Conference of International Society for Biological Calorimetry and the associated summer school of calorimetry. The message of our Conference in Cracow was: "Biological Calorimetry: past, present and future"

Small introduction. ISBC conferences this relatively small, held every two years meetings, bringing together scientists using calorimetric methods in broadly understood biological research. The advantage of such small conferences is the opportunity to participate directly in many interpersonal meetings face to face. Meetings are to 100% organized by the people that volunteer to arrange the next meeting. ISBC has no formal organization and no funds (members do not pay contributions). You become an ISBC member by participating in conferences. Homepage is only used to advertise the next meeting. Society are international, but all meetings have been in Europe (except for a single meeting in the USA). From 2016 (conference in Basel, Switzerland) ISBC conferences are accompanied by (free of charge) summer calorimetry schools run for young scientists.

The two sides of the Lavoisier medal.

The conference in Cracow was organized by The Franciszek Górski Institute of Plant Physiology, Polish Academy of Sciences. The Scientific Committee of the XX Conference worked in the composition: Nieves Barros (Spain), Olivier Braissant (Switzerland), Jean-Henry Ferrasse (France), Lee D. Hansen (US), Thomas Maskow (Germany), Daumantas Matulis (Lithuania), Monika Normant (Poland), Andrzej Skoczowski (Poland), Lars Wadsö (Sweden) and Raivo Vilu (Estonia). The conference was attended by 37 participants from 13 countries around the world (Canada, China, Columbia, Germany, Italy, Lithuania, Poland, Portugal, Russia, Spain, Sweden, Switzerland, USA).

The Conference program included 4 thematic sessions: 1. Microbiology and biomedical applications of calorimetry, 2. Molecular, 3. Food technology and related product calorimetry, 4. Soil, ecology and plants. In general, 21 oral presentation were presented. In addition, one session was devoted to presentations prepared by sponsors (Sponsor viewing and discussion). During this session companies presented themselves: CSO Symcel Sverige AB, TA Instruments US and Calmetrix - Boston US. As part of a small poster session, 15 posters were presented.

A very important part of the tradition of our Society is the Lavoisier Medal. Starting at ISBC VII, the conference has presented the Lavoisier Medal to an internationally acknowledged scientist for an outstanding contribution to the development and/or the application of direct calorimetry in biology and medicine. The obverse of Lavoisier's Medal depicts a portrait of Antoine-Laurent Lavoisier (1743-1794) with the legends of LAVOISIER MEDAL FOR CALORIMETRY, while on the reverse there is the famous Lavoisier ice calorimeter together with sentence: FIRE OF LIFE (the title of Max Kleiber's book from 1961 on biological calorimetry and animal energetics). The awarding of the medal is always accompanied by the laureate's presentation of the so-called Lavoisier's lecture.

The winner of the Lavoisier Medal in 2018 was **THOMAS MASKOW**. At the XX ISBC Conference in Cracow he gave a "Lavoisier lecture" entitled: The future of biocalorimetry and biothermodynamics from the biotechnologist's perspective. Tomas Maskow is an employee of UFZ - Helmholtz Center for Environmental Research at the Department of Environmental Microbiology, Leipzig, Germany.

At the conference in Crakow, Daumantas Matulis (Vilnius University, Lithuania) became ISBC President for 2018-2020. He will be the organizer of the XXI ISBC conference in Vilnius. So, see you in June 2020 in Lithuania.

Andrzej Skoczowski

The President of ISBC Andrzej Skoczowski (on the left) honors Dr. Thomas Maskow (on the right) with the Lavoisier medal.

Eventi 2018

12th European Symposium on Thermal Analysis and Calorimetry (ESTAC 12)

Si svolgerà dal 27 al 30 agosto 2018 a Brasov in Transilvania, il 12° Congresso ESTAC. Chairman del Congresso sarà l'attuale vicepresidente ESTAC e Presidente CEEC-TAC Dr. Andrei Rotaru.

Payment of the late registration fee or of the onsite registration fee: after 10th of July 2018. There will be included in the book of abstracts and Program of the conference only those works for whom their presenting authors have paid the registration fee no later than 7th of August 2018.

Registration of participants at ESTAC12 (Aula Magna): 27th of August 2018 (13:00-17:00)

Opening ceremony of ESTAC12 at (Aula Magna): 27th of August 2018 (18:00-19:00)

Plenary lecture (Aula Magna): PL1, Country: 27th of August 2018 (19:00-20:00)

Welcome Cocktail (Aula Magna): 27th of August 2018 (20:00 - 22:00)

Conference sessions (Aula Magna): 28th, 29th and 30th of August 2018 (9:00)

Conference closing (Aula Magna): 30th of August 2018 (18:00)

www.estac12.org

L' **International Conference on Chemical Thermodynamics (ICCT-2018)** si svolgerà congiuntamente alla **Seventy-Third Calorimetry Conference (CALCON 2018)** a Lake Tahoe, CA, USA dal 5 al 10 Agosto 2018

organizzata dalla International Association on Chemical Thermodynamics e dalla North American Calorimetry Association

http://www.iactweb.org/Conferences/conferences.htm

45th Annual NATAS Conference

Technical Conference August 6-9, 2018

Short Course August 9-10, 2018

Houston Hall, University of Pennsylvania Philadelphia, PA

http://www.natasinfo.org/

Si svolgerà a Zakopane, Polonia, dal 2 al 6 Settembre 2018 la **13th Conference on Calorimetry and Thermal Analysis** of the Polish Society of Calorimetry and Thermal Analysis

http://ccta13.umcs.pl/

L'annuale conferenza del Gruppo Tedesco di Analisi Termica

GEFTA Jahrestagung 2018

Si svolgerà ad Erlangen, D, dal 12 al 14 Settembre 2018

http://www.gefta.org/index.php

XVI Russian and International Conference on Thermal Analysis and Calorimetry (RTAC-2018)

Due to range of organizing difficulties, connected with execution of many events in the second half of 2018 by congress department of SpBPU, conference RTAC 2018 is postponed. The organizers inform you about the new dates of RTAC on their official website (www.crtac.com) till 1 December of 2018.

http://crtac.com/en/

Eventi 2019

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

Chancellor venue of La Sapienza University of Rome

Dal 27 al 30 agosto 2019 si terrà a Roma (Aula Magna dell'Università di Roma "La Sapienza" e sale ad essa attigue) un Congresso Internazionale di Calorimetria ed Analisi Termica. Si tratta di un evento congiunto organizzato dalle due comunità scientifiche internazionali di settore denominate CEEC-TAC (Central and Eastern European Conference on Thermal Analysis and Calorimetry) e Medicta (MEDIterranean conference on Calorimetry and Thermal Analysis) che dovrebbe ospitare circa 400 partecipanti, provenienti da tutto il mondo, prevalentemente dall'Europa.

Lo scopo principale è quello di fornire ad ogni partecipante una vasta platea di colleghi alla quale presentare le ultime migliori ricerche in questo campo e con le quali (è quello l'auspicio) stabilire o rinforzare collaborazioni e confrontarsi su temi di ricerca di punta nel campo della Calorimetria e dell' Analisi Termica, quali, ad esempio, solo a titolo di esempio: la reattività termica e le proprietà termiche di materiali solidi, cinetica di degradazione di materiali, comportamento termico di polimeri, materiali compositi e biomateriali, materiali per la produzione, conversione e stoccaggio dell'energia, applicazioni della termochimica, applicazioni a materiali per i beni culturali.

Stefano Vecchio Ciprioti

An International Conference on Calorimetry and Thermal Analysis will be held in Rome (Aula Magna of the University of Rome "La Sapienza") from 27th to 30th of August 2019. It will be a joint event organized by two international scientific communities called CEEC-TAC (Central and Eastern European Conference on Thermal Analysis and Calorimetry) and Medicta (MEDIterranean conference on Calorimetry and Thermal Analysis) that should host about 400 participants, coming from all over the world, mainly from Europe.

Great hall of La Sapienza University of Rome

The main purpose is to provide each participant with a wide audience of colleagues to present the latest best research in this field and with which (it is the wish) to establish or reinforce collaborations and to discuss topics of research in the field of Calorimetry and Thermal Analysis, such as, for example, only by way of example: 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.

Stefano Vecchio Ciprioti

Symposium GECAT "Calorimetry and Thermal Analysis in Modern Chemistry". 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://rseq.org/blog/generales/item/1668-xxxvii-reuni%C3%B3n-bienal-rseq-2019

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

Organizzata dalla Gesellschaft für Thermische Analyse e.V. (GEFTA) e dal Physikalisch-Technische Bundesanstalt (PTB) la **23rd Kalorimetrietage** si svolgerà a Braunschweig dal 12 al 14 Giugno 2019.

https://www.kalorimetrietage.ptb.de/home.html

The Journal of Thermal Analysis and Calorimetry (JTAC) launched a new thermoanalytical conference series in 2017. During the five decades of publishing, a global community has formed around JTAC, thus the conference is an opportunity, where 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 about the theory, methodology and applications of thermal analysis and calorimetry through plenary, invited and contributed lectures and posters.

During the conference our prestigious awards, i.e the JTAC Scientific Excellence Award, the JTAC Young Scientist Award, and the JTAC Best Reviewer Award will be handed over. The next event of the series will be at Budapest in 2019, where the 50th anniversary of Journal of Thermal Analysis and Calorimetry will be celebrated.

https://jtac-jtacc.akcongress.com/

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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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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