

The Brazilian Workshop and User Meeting on  
Calorimetry and Biocalorimetry  
São Carlos-SP, Brazil. IQSC/USP 3, 4 February, 2016  
IQSC/USP, Q1 Building at Amphitheater A

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# PROGRAM

<b>THE BRAZILIAN WORKSHOP AND USER MEETING ON CALORIMETRY AND BIOCALORIMETRY</b>  <b><i>"NEW FRONTIERS ON CALORIMETRY AND BIOCALORIMETRY"</i></b>  <b>FEBRUARY 3 AND 4, 2016</b>	
<b>WEDNESDAY, FEBRUARY 3, 2016</b>	
<b>09:00-12:00</b>	
09:00-09:15	Opening: Conceição A. Minetti and Carlos Montanari  Overview and Introduction
09:15-10:00	<b>Speaker</b>  Peter Kenny, NEQUIMED/IQSC/USP  <i>"Thermodynamics and Medicinal Chemistry Design"</i>
10:00-10:30	<b>Break</b>
10:30-12:30	<b>Speaker</b>  Verna Frasca, Malvern  <i>"Isothermal Titration Calorimetry and Differential Scanning Calorimetry in Life Sciences Research and Drug Discovery and Development: Binding, Thermodynamics and Stability"</i>

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Co-Chair: Conceição A. Minetti, Rutgers University

Secretary: Igor Prokopczyk and Fabiana Rosini

Sponsor: Malvern

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<b>WEDNESDAY, FEBRUARY 3, 2016</b>	
<b>14:00–17:00</b>	<b>User Meeting</b>
<b>14:00–14:30</b>	1. Karl Jan Clinckspoor, UNICAMP  "New Insights on the calorimetry of wormlike micelles"
<b>14:30–15:00</b>	2. Rafael Pires de Oliveira, UNICAMP  "A DSC Study on the Thermoresponsiveness of a Biocompatible Polymer"
<b>15:00–15:30</b>	3. Fabiana Rosini, NEQUIMED/IQSC/USP  "Differential Scanning Calorimetry (DSC): Basic Concepts and Applications in Drug Discovery"
<b>15:30–16:00</b>	<b>Break</b>
<b>16:00–16:30</b>	4. <b>Henrique Kajiyama</b> , Malvern  <b>"Nanoparticles characterization techniques. Size distribution as measured concentration and stability studies using Zeta Potential."</b>
<b>16:30–17:00</b>	User discussion
<b>17:00–19:00</b>	<b>WELCOME RECEPTION</b>

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<b>THURSDAY, FEBRUARY 4, 2016</b>	
<b>09:00-12:00</b>	<b>User Meeting</b>
<b>09:00-09:30</b>	1. Andrei Leitão, NEQUIMED/IQSC/USP "Calorimetry in Cell-based Assays"
<b>09:30-10:00</b>	2. Igor Muccilo Prokopczyk, NEQUIMED/IQSC/USP "Determination of Thermodynamic Profile and Binding Constant of Cruzain Inhibitors"
<b>10:00-10:30</b>	<b>Break</b>
<b>10:30-11:00</b>	3. Karine Minari, USP "Biocalorimetry applied to elucidate the thermodynamic signature between the interaction of Hsp90 of different organisms with natural ligands"
<b>11:00-11:30</b>	4. Paulo Roberto Dore-Silva, USP "Unraveling the interactions of human mortalin (mitochondrial Hsp70) with binders and co-chaperones by ITC: obstacles and challenges"
<b>11:30-12:00</b>	Discussion

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THURSDAY, FEBRUARY 4, 2016	
14:00-17:00	<b>Speakers</b>
14:00-14:45	1. Watson Loh, UNICAMP  <i>"Calorimetry is not Color Blind: Molecular Insights from Calorimetric Measurements"</i>
14:45-15:30	2. Conceição A. Minetti, Rutgers University  <i>"Thermodynamic Approaches to Characterize and Optimize Protein-Ligand Interactions"</i>
15:30-16:00	<b>Break</b>
16:00-16:45	3. Carlos A. Montanari, NEQUIMED/IQSC/USP  <b>"Energetics and Structural Characterization of Cysteine Protease Cruzain Inhibition Using X-ray and Calorimetry"</b>
16:45-17:00	Discussion
17:00-19:00	Cocktail

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