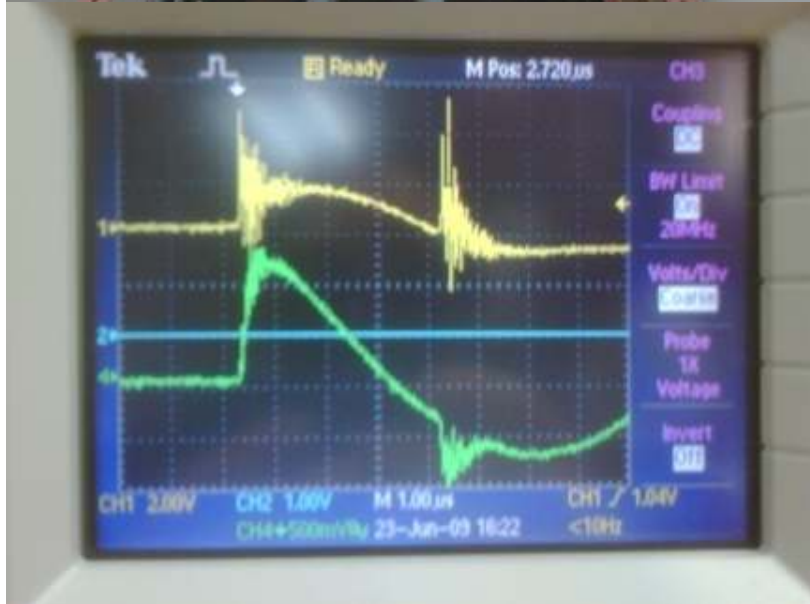


# Regional Collaborative Workshop on Plasma Focus Diagnostic Development and Applications 20 June to 1 July 2011



The Abdus Salam  
International Centre for Theoretical Physics



Centre for Plasma Research  
INTI International University



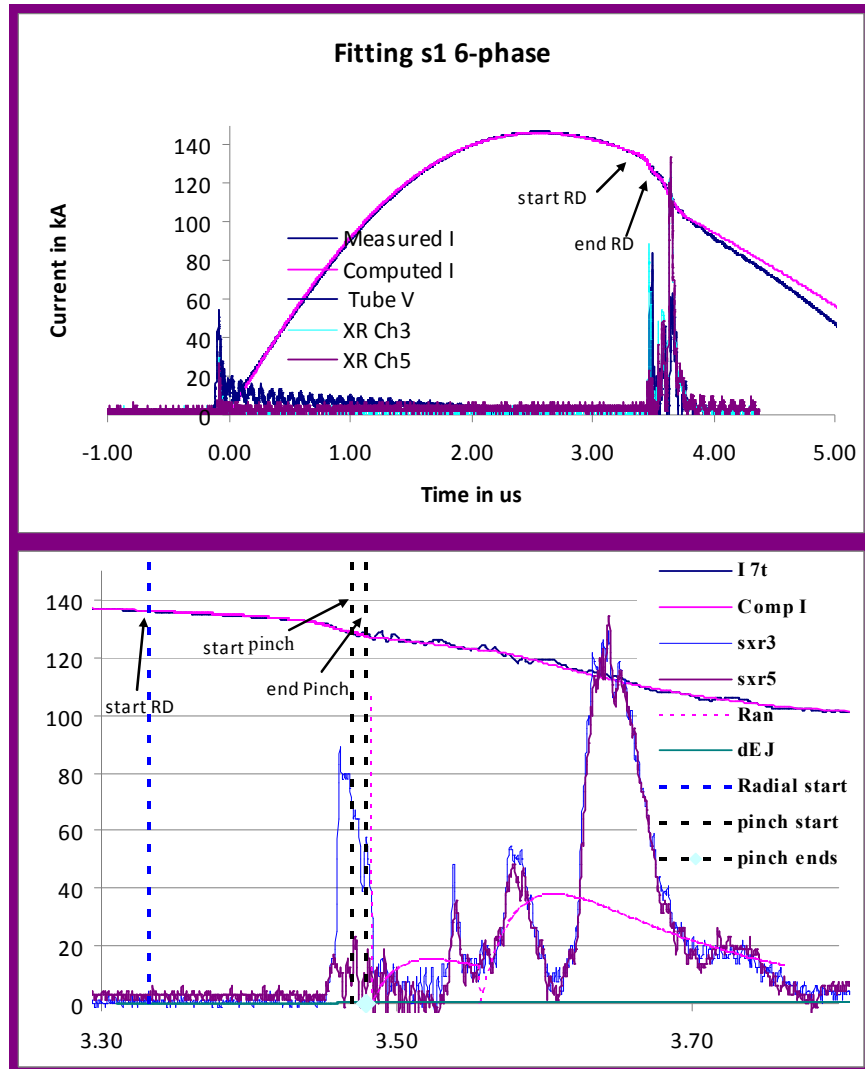
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IPFS Institute For Plasma Focus Studies  
• Knowledge Shared for the Future, Accessible for All •

AAAPT



### Correlating SXR Emission to Plasma Focus Dynamics

#### Regional Collaborative Workshop on Plasma Focus Diagnostic Development and Applications RCWS 2011, 20 June to 1 July 2011

The Centre for Plasma Research at INTI International University was established in November 2007 with the hosting of the Universal Plasma Focus Laboratory Facility. Since then the UPFLF Lee Model code has received wider international adoption in assisting design and interpretation of plasma focus experiments. In December 2008 a gift of the 3kJ plasma Focus from NTU/NIE to INTI IU allows the synergy of numerical experiments and experiments to be strengthened here at the CPR at INTI IU.

This Workshop is part of the continuing activities to take advantage of our expertise in numerical experiments to be applied to measurements on the INTI PF; synergizing for the development of diagnostic and applications. The Workshop will be divided into 3 components of activities namely, hands-on guided experiments (GE), collaborative research sessions (RS) and a one-day SPFE 2011.

**Advisor:** Professor Dr Lee Sing

**Organizing Committee**

**Chairperson:** Professor Dr Saw Sor Heoh

**Co-Chair:** Professor Dr Jalil Ali, UTM

**Secretariat:** Dr Chong Perk Lin

**Treasurer:** Sucila Kulasegaram

**Publication:** Dr Chong Perk Lin

**Editors:** Professor Dr Lee Sing, Professor Dr Saw Sor Heoh

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**Registration:** Assoc Professor Arvinder Singh Jigiri Singh

**Logistics:** Federico Roy Jr., Ahmad Shahrazi Md Sidik

**Website design &**

**Photographer:** Kauri Kasi Annapurna Devi

**Outline of activities (subject to change)**

**20 June** GE: Briefing, checking and introduction to experimental systems, a working current measurement system, a working 2-channel differential SXR measurement system, firing some shots, collecting current and voltage data, speed analysis from current and voltage waveforms by time-of-flight and by inductive methods.

**21-23 June** GE & RS: Firing shots in Neon and in doped Neon; collecting 2-channel SXR data together with current and voltage data-preliminary analysis.

**24 June** GE & RS: Analysis with emphasis on understanding the usage of the Lee Model code in relation with the experimental data.

**27-28 June** RS: Time Correlation of measured and computed data, especially correlating the SXR data to plasma dynamics; other diagnostics.

**29-30 June** RS: Preparing a report of the work- with possibility to extend to a research paper joint publication.

**1 July 2011: Seminar on Plasma Focus Experiments SPFE 2011-** Invited Lectures and paper presentation by participants.

The Workshop has received small grants from the Abdus Salam ICTP OEA, UTM and INTI IU to provide some assistance to several collaborators/lecturers from Syria, Iran, Pakistan and Singapore to attend. Other participants pay a nominal bench/registration fee.

GE & RS: Bench fee: MR1000

SPFE: Registration fee: MR200

To participate please fill in the following form:

**Request for participation at (a) RCWS 2011 (b) SPFE 2011**

Name: \_\_\_\_\_

Highest academic qualification: \_\_\_\_\_

Institution: \_\_\_\_\_

Position: \_\_\_\_\_

Research Interest: \_\_\_\_\_

Request to present the following oral/poster\* paper: Title \_\_\_\_\_

\_\_\_\_\_ (\* delete either one)

Request participation in:	(a) RCWS 2011	RM1000
(please delete if not applicable):	(b) SPFE 2011	RM 200

Total: RM \_\_\_\_\_

Payment:

Attached is a cheque for the amount, made out to: **INTI INTERNATIONAL EDUCATION SDN.BHD**

**Or:** Payment will be made by my institution \_\_\_\_\_  
to INTI International University (please have an accompanying note identifying RCWS 2011 and/or  
SPFE 2011 as the purpose of the payment)

For Telegraphic transfer:

Payee's name: INTI International Education Sdn. Bhd.

Bank Name: HSBC Bank Malaysia Berhad

The address: No:-50-52, Jalan Dato' Bandar Tunggal, 7000 Seremban, Negeri Sembilan.

Account no: 351-418702-101

Swift code: HBMBMYKL

Remarks: Centre for Plasma Research

Payee's name: INTI International Education Sdn. Bhd.

Signature of applicant: \_\_\_\_\_ date: \_\_\_\_\_

Please sign and send the filled form to:

Prof Dr Saw Sor Heoh

INTI International University

Persiaran Perdana BBN

Putra Nilai, 71800 Nilai,

Negeri Sembilan, Malaysia

Please contact the following for further information:

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