

❖ Who should attend:

Students, Scientists and Academicians, Chemists (QC, QA, R & D) working in the areas of pharmaceuticals, chemicals, material sciences, etc. This **seminar** covers the following areas:

- RAMAN Spectroscopy – An Overview
- Basics of RAMAN & IR Spectroscopy
- Instrumentation and Capabilities
- Applications of RAMAN spectroscopy: Pharmaceutical Analysis, Nano Material Characterization etc.

Programme

Registration	9.00 am
Inauguration	9.30 to 10.30 am
High Tea	10.30 to 11.00 am
Technical Session I	11.00 to 12.45 pm
Lunch break	12.45 to 2.00 pm
Technical Session II	2.00 to 3.30 pm
Tea break	3.30 to 3.45 pm
Technical Session III	3.45 to 4.30 pm
Panel Discussion & Certificate Distribution	4.30 to 5.00 pm

Speakers

1. Dr Vasant Sathe (Scientist) CSR, Indore
2. Dr Gokul Srinivasan (Application Scientist) Bruker Optik GmbH India
3. Prof B V Kamath, M S University, Vadodara
4. Dr K Shivram, (VP), SPARC, Vadodara
5. Dr Shreeram Oak, Bruker Optik GmbH, India

Prof R K Goyal, (Patron)

Vice Chancellor,
M S University of Baroda, Vadodara 390 002.

Prof B V Kamath (Co-ordinator)

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Prof Arun Pratap (Co-convener)

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Seminar on Advances In RAMAN Spectroscopy

March 13, 2010

9.00 – 17.00 hrs.

Venue

Department of Chemistry
The Maharaja Sayajirao University of
Baroda

ORGANISED BY



Indian Society of Analytical Scientists
Baroda Chapter

in Association with

Department of Chemistry

&

Department of Applied Physics

The Maharaja Sayajirao University of
Baroda

AND

Bruker Optik GmbH (India Branch)

E-219, Floral Deck Plaza, Central MIDC Road,
Andheri-East, Mumbai - 400 093

www.brukeroptics.com/India.html

Patron

Prof R K Goyal

Vice Chancellor, MSU

Organizing Committee

Prof B V Kamath, Head, Department of Chemistry
Dr K Shivram, (Chairman-ISAS-BC) (**Convener**)
Prof Arun Pratap, Head, Applied Physics, MSU
Dr Shreeram Oak (Bruker Optik GmbH India Branch)
Dr Kalpana G, RIL (ISAS-BC)
Dr P B Samnani, (Secretary -ISAS-BC) (**Co-convener**)
Mr J J Makwana, Treasurer (ISAS-BC)
Dr S Soni, Jt Secretary (ISAS-BC)
Mr M D Desai, Jt Treasurer (ISAS-BC)
Prof U Chudasama, EC-Member (ISAS-BC)
Mr Garg EC-Member (ISAS-BC)
Mr D N Bandopadyaya (ISAS-BC)
Mr V T Teraiya EC-Member (ISAS-BC)

About ISAS Baroda Chapter

The **Indian Society of Analytical Scientists** was instituted in 1983, with head quarters at BARC, Mumbai. The **Baroda Chapter (BC)** was established in 1993 with the following objectives:

- To provide a forum for discussing and sharing experiences, cross-fertilization of ideas and forging links among analytical scientists in this region
- To work as a platform to disseminate knowledge to the society at large and particularly to college / university students.
- To act as an interface between various organizations and academic institutions for mutual benefits.

About RAMAN Spectroscopy

RAMAN spectroscopy is a form of molecular spectroscopy based on the **RAMAN** Effect, which is an inelastic scattering phenomenon of light discovered by Dr C V Raman in 1928. Dr Raman was awarded Nobel Prize for his work in 1930. **February 28**, the date on which Raman's discovery was reported is observed as **National Science Day** in India.

Two major technologies used to collect the Raman Spectra: dispersive Raman, and Fourier Transform Raman; the difference between the two is the lasers used and the way the Raman scattering is detected and analyzed.

Two related techniques are important: Confocal Raman Microscopy and Surface Enhanced Raman Spectroscopy (SERS).

Application areas: pharmaceutical, carbon and diamond, material science including nano materials, gemology, geology and mineralogy, forensic science, nanotechnology, art and heritage, semiconductors, biological and biomedical.



Registration Form

ADVANCES IN RAMAN SPECTROSCOPY

March 13, 2010

Name: Mr /Ms /Dr:

Designation:

Organization:

Address:

[O]
[R]

E-mail:

Demand draft (no. _____ Drawn on _____
Bank)/cash for Rs. _____

Date:

Signature:

Registration fee

ISAS Members, Teachers _____ Rs. 200/-
& Students

Non-members, Industry participants _____ Rs. 500/-

The program has limited registration. Seats will be available strictly on first cum first served basis, from each membership sector

Registration includes tea and lunch. Fees can be paid in *Cash, Demand Draft or Cheque (payable at par)*. There will be no refund. DD / cheque should be drawn in favour of "Indian Society of Analytical Scientists – Baroda Chapter" payable at Vadodara.

Printouts / Photocopies of this form can be used.