# SISCOM

**ISSUE JANUNARY TO DECEMBER 2014 INDIA**

**President**
## Dr. Naresh Kumar
Former Head,President, SIS
Currently Dean (Academics)
DAV University, Jalandhar (Punjab)
Email : nareshsahajpal@gmail.com

**Vice Presidents**
## Dr. Ramesh Kundra
Former Scientist, CSIR - NISTADS
Dr. KS Krishnan Marg
New Delhi-110012
Email : rameshkundra00@gmail.com

## Dr. S C Dhawan
Former Scientist, HRD Group
CSIR Complex, Library Avenue
Pusa, New Delhi-110012
Email: scdhawan006@yahoo.com

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## NK Wadhwa
Principal Scientist and Head KRC,
CSIR - National Physical Laboratory
Dr. KS Krishnan Marg
New Delhi-110012
Email : nkwadhwa@gmail.com

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Online Processing & Management of Extramural
Projects of ICMR
Editor : The Journal of Scientometric Research
(Wolters|Kluwer Health)
Indian Council of Medical Research
New Delhi - 110029
Email : drdivya.srivastava@gmail.com

**Treasurer**
## Dr HC Jain
Former Scientist
CSIR - NISCAIR
266, Siddharth Enclave
New Delhi-110014
Email : hemjain38@rediffmail.com

Website: www.sis.org
Please send your input for the Newsletter
to the editorial team

## FROM THE PRESIDENT DESK.............

It is after quite a gap that I am communicating to the fellow SIS members. We have not been able to bring out the print form of our newsletteras per our regular periodicity, yet our activities have continued apace. We have continued to add value to Society's Charter and mandate. Our annual Conventions and Conferences, and the patronage of the information professionals thereof are a testimony to the good work which all SIS members have been carrying out. The SIS Executive Members join me in conveying our gratitude to all of you.

Our 31st Annual Convention and Conference on 'Big Data Mining: The Concepts, Methods and Applications' is being held from November 27 to 29, 2014 at the CSIR-Institute of Microbial Technology, Chandigarh. The Conference seeks to address well nuanced research and information domains of BIG DATA through related themes and sub-themes, as covered elsewhere in this newsletter. We expect the Conference toattract a large participation of scientists, researchers, students working in the information science and related disciplines. It goes without saying that some of the well known Indian scientists and researchers, as plenary speakers,will inject an intellectual vigor and lively interactions to the Conference.The Society would much appreciate if you register for the Conference and enjoy listening to some very stimulating lectures.

The Society with its limited resources is doing its best to promote information domain related activities, yet we would like to hear from the members on what more we can do. Please do write to us with your suggestions. We are also open to organizing short term courses and Workshops in your institutions for the larger benefit of the students and researchers.

Looking forward to seeing you in IMTECH, Chandigarh during the 31st Convention-cum-Conference.

Thanking you,

**Dr. Naresh Kumar**
**President, SIS**
**Currently Dean(Academics)**
**DAV University, Jalandhar(Punjab)**

# 31ST NATIONAL CONVENTION-CUM-CONFERENCE OF THE SOCIETY FOR INFORMATION SCIENCE (SIS) & CSIR-IMTECH, CHANDIGARH

## SIS - 2014, November 27-29, 2014, at, CSIR-Institute of Microbial Technology, Chandigarh

### CONFERENCE THEME : BIG DATA MINING: THE CONCEPTS, METHODS AND APPLICATIONS"

Past few years have seen an exponential growth in data generation, dissemination and use across all domains be it science, engineering, humanities, arts and so on. The main drivers to data growth are increasing research, subject domains diversity, better understanding of complex data mining tools and techniques, global inter institutional linkages and an increasing willingness to share data. The term rightly used for the availability and growth of data is "BIG DATA".

This Conference seeks to provide the researchers, academicians industry and students a platform to share the newer developments in this area. The research and the business both are positively impacted by availability of large volumes of data, whether it is structured or unstructured. The Conference, therefore, would have several sessions to discuss the issues germane to the spread of 'Big Data' as a discipline.

### THE CONFERENCE SUB-THEMES ARE:

1. **Exponential Growth in Scientific Data:** Globally the inflow of data has increased at an enormous pace to the advantage of researchers across multiplicity of research domains. Availability of huge volumes of data affords a unique opportunity in using such data volumes to create research focus be it in biological, chemical, physical sciences or in social sciences. Due to exponential growth of scientific data, new interdisciplinary fields have emerged in last decade that includes Bioinformatics, Cheminformatics, Pharmainformatics. Under this theme various resources or database contain scientific information will be discussed.

2. **Mining "Big Data" in Social media: Context, creation and applications thereof:** *Facebook, twitter, watssap, we chat,* and few more such platforms are driving the social media crazy with volumes of information and data availability. Such data has huge implications for researchers and industry across a cross section of domains. Research publications using mined information would be the focus of this sub-theme.

3. **"Big Data" as an information power-house for 'analytics' and 'visualization' in business systems:** For business systems or financial markets, the availability of marketing or manufacturing data helps in growth. Data gives them a power of visualization and analysis thereby creating for them areas of big opportunities. Case studies on this theme would create a focus for this session.

4. **Structured databases as 'Innovation' ecosystem:** Innovation is driven by creativity and curiosity; both have their basis in availability of information and data. This sub-theme shall have presentations on how availability of information mined out of structured databases help researchers.

5. **Reaching beyond 3 Vs of "Big Data":** 'Volume' 'Velocity' and 'Variety' of 'data' helped by 'Variability' and 'Complexity' lead to appropriate decision making and help bring in accurate analysis. The session

shall address issues on a sub-theme which would afford the students/researchers/academicians an opportunity to present their work on a theme of seminal importance.

6. **Genomes based Personalized Medicine:** Due to advancement in sequencing technology, there is exponential growth in genomic data; trillions of data generated every day. Genomics is leading the life sciences research and is driven by ever evolving data mining techniques. Under this theme application of genomic information in health science will be discussed.

7. **'Ethics in "Big Data" collection, collation and usage:** Maintaining 'Ethics' and 'ethical conduct' have importance in all spheres of life, and are equally applicable in data mining and its subsequent use where Ethical considerations do play a major role. The session would have case presentations on this theme.

## OBJECTIVES OF THE CONFERENCE

The principal objective of this Conference is to provide a platform for exchange of knowledge, ideas & learning experience among the Information specialists, Scientists, Academicians and researchers.

## TARGET AUDIENCE

Practicing Information Specialists, Academicians, IT Professionals, Research Scientists, Bioinformaticians, Cheminformaticians and Students.

## CALL FOR PAPERS

Papers based on case studies, Researches, Practical experiences, etc. on the main theme and sub-themes of the Conference are invited from the interested participants. The Paper should be within 6000 word including Abstract of about 300 words with 4 keywords and typed in MS-WORD in 12-point Times New Roman. All the references should be properly tagged and referred following MLA Style Manual. The authors should agree with the transfer of the copyright of the papers to SIS, New Delhi and CSIR-IMTECH, Chandigarh. The same should be sent as e-mail attachment to the Organizing Secretary on or before November 1, 2014. All the received papers will be peer-reviewed. Only the accepted papers will be published in an edited book format to be published under the aegis of SIS, India.

General Instructions:

1. Both invited and contributed papers will be considered
2. A generalized presentation should be avoided
3. A declaration by the author (S) should be made separately that the paper(s) has/have not been sent elsewhere for publication/presentation
4. All accepted papers will be invited for presentation
5. The decision of the Editorial Committee will be final.

## IMPORTANT DATES

| | | |
|---|---|---|
| Deadline for Paper Submission | : | November 1, 2014 |
| Notifications for Acceptance | : | November 10, 2014 |
| Camera Ready Paper Submission | : | November 15, 2014 |
| Conference Date | : | November 27-29, 2014 |

## REGISTRATION

Delegates are requested to fill the registration form and return the same with conference fee and other applicable payments to the Conference Secretariat latest by November 1, 2014.

| Conference Fee | SIS members | Working industry professionals and non-members | Students, Retired Information specialists | Accompanying person | Overseas |
|---|---|---|---|---|---|
| (Early Registration by October 31, 2014) | Rs 2000 | Rs. 3000 | Rs. 1000 | Rs. 1500 | $ 100 |
| Regular (After October 31, 2014) | Rs 2500 | Rs. 3500 | Rs. 1500 | Rs. 2000 | $120 |

The registration fee will cover registration materials, lunch, dinner, tea & snacks. The demand draft should be drawn in favor of 'SIS 2014' and payable at Chandigarh

### TRAVEL GRANT
The Organising Committee shall provide travel grant to a maximum of 10 students of bonafide institutions for travel by rail/road (3rd AC or equivalent). Those interested may put up their request for the same.

### ACCOMMODATION
Accommodation charges will be Rs.500/- per person per day on sharing basis.
Accommodation will be provided to the delegates in the institute guest house, other guest houses, and hostels on first come first serve basis.

### VENUE
**CSIR-IMTECH, Chandigarh**
CLIMATE: The participants are advised to bring some woolen clothes as during November the weather will be moderately colder one.

## SPECIAL LECTURES

During every Conference SIS organizes two special Orations/lectures to honour two of its founding fathers, namely, (Late) Sh. A  N Raizada and (Late) Sh. S Nagarajan.

**Raizada Memorial Lecture &Nagrajan Memorial Oration: To be delivered by eminent Information Scientist**

## SIS FELLOWSHIP AND YOUNG INFORMATION SCIENTIST AWARDS FOR THE YEAR 2013& 2014

The Society for Information Science (SIS) awards SIS Fellowship every year to honor and recognize outstanding contributions in the area of information science and technology, and Young Information Scientist Award (instituted in 1989 in the memory of Late Shri A.S. Raizada, eminent information scientist and founder Secretary of SIS).

Nominations were invited for the SIS Fellowship and the Young Information Scientist Awards for the year 2013 and 2014.

Kindly note that  Self-nominations or nominations without bio-data were not  considered.

- In the case of Young Information Scientist Award, the age of the nominee was less than 35 years as on the closing date of the nomination.
- Nominations were received by the Secretary SIS along with complete bio-data of the nominee, including his/her contributions to the field specifically to the area of Information Science.

The Expert Committee has already met and has made their reccommendations. The Final results will be announced during the 31st conference at Chandigarh, and the awardees will be honoured during that time.

## REPORT OF THE "SEMINAR ON "INDIAN LIBRARY AND INFORMATION SCIENCE JOURNALS: PROBLEM & PROSPECTS"

held on23 April 2014, at NISCAIR New Delhi.

To commemorate 100 years of Indian library and information science journals and 60 years of 'Annals of Library and Information Studies' published by CSIR-National Institute of Science Communication and Information Resources (CSIR-NISCAIR), a seminar on 'Indian Library and Information Science Journals: Problem & Prospects" was organised by CSIR-NISCAIR In Association With Society For Information Science on 23 April 2014 at CSIR NISCAIR New Delhi.

### Recommendations of the seminar:

- Indian LIS journal editors should work towards improving the quality and visibility of the journals.
- Journal editors may look at including non-English language or Indian language papers in the journals.
- Editorial Boards of journals should play a meaningful and active role. Journal editors should strive to bring out the journals on schedule.
- The journal editors may explore the possibility of open peer review system.
- The journal editors may explore the possibility of open peer review system
- To have coordination among the journal editors, an Indian LIS Journals Editors Guild may be formed.
- There should be incentives to reviewers (payments or as API points) so that the review process is expedited in a faster manner.
- There should be author workshops to encourage and motivate young authors.
- Scholarly writing skills should be inculcated to students as part of the MLIS programme.
- There is a need for specialized journals in LIS.
- There should be FAQ pages on journal websites that answers general author queries.
- Journals should indicate timelines in papers and strive to maintain publishing papers based on date of receipt of articles.

## REPORT OF 30TH CONVENTION & CONFERENCE OF SIS ON "PAT INFORMATICS"

**organized jointly by URDIP & SIS, at 'Unit for Research & Development On Information Products" during 9th -11th December, 2013**

Patinformatics is a newly emerging science, which involves analyzing set of patent data to discover relationship and trends which would be difficult to see when working with patent documents on a one-on-one basis. The term 'PATINFORMATICS' was coined by Anthony (Tony) Trippe over ten years ago.

Realizing the importance of this newly emerging area, Society for Information Science (SIS) in collaboration with CSIR's Unit for Research and Development of Information Products (CSIR- URDIP), the organizing institution identified this area for the Convention and Conference which is so very relevant in present times. The present decade is the "decade of innovation" and it is innovation alone which drives the technological

prowess of a country and both of them are inalienably linked to information residing in IP. They create a seamless linkage which is what were discussed and debated in 3 days.

The first ever Indian conference on Patinformatics, titled 'Recent Trends in Patinformatics', was held from the 9th to 12th of December at the National Chemical Laboratory, Pune to mark the 26th National Convention of SIS (Society for Information Science) which was co hosted by URDIP (Unit for Research and Development of Information Products). The present conference was the 3rd one in the series. This conference was aimed at answering several pertinent questions about the need, method and application of patent analysis as well as depicting both the Indian and Global status in this field. Hence the conference consisted of a workshop as well as lectures from eminent persons from Industry and Academia. The participants were delegates from research institutes and IP companies from all over India.

The inaugural session was held on the evening of the 9th of December. The keynote address was delivered by Dr Craig Stephens (Vice- President, CAS, Ohio) who spoke on the " CarpeDatem- -----big data to drive insight". He talked on the explosive growth in scientific publication and patenting activity and how with this wealth of Information an IP professional withPatinformatics intelligently mine and analyze data for value addition in technology development. The key note address was delivered by The key-note address was delivered by DrPrabuddhaGanguly, undoubtedly India's best known IPR expert and he can easily be called the mother who has spread the culture of IP in India. DrGanguly spook on the topic "The Patent Infogenie… at beck and call" which encompassed a lot for each one of the participants. The programme ended on a high note which was the announcement of Fellowships and Awards instituted by SIS as a recognition of the efforts of IP professionals and scientists.

The agenda of the conference comprised of training sessions on the first day (9th Dec.) followed by lectures from invited speakers on the second and third day. A poster session was also organized to showcase the ongoing Patinformatics studies in several Indian organizations. The posters exhibited by participants spread all over India covered landscape pictures over a diverse range of topics ranging from health issues to environmental issues and recent trends in Patenting activities among institutions as well as among Indian women. The training workshops were conducted by several database and analytical tool providers. Three tracks were conducted as parallel sessions where the participants could choose the programmes that best satisfied their requirement.

The lecture series were divided into seven sessions starting with the global status of Patinformatics, proceeding towards knowledge of current search and analysis tools, revealing the applications of such analysis in different sectors and finally reflecting the Indian scenario.

There were technical sessions on 10th and 11th with focused presentations on the use of Patent Information and some of the practical applications which included, but were not limited to: Management of Research and Development (R&D), Competitor Monitoring, Technology Assessment, New Venture Evaluation, Input for Licensing Strategy, Supporting Mergers and Acquisitions (M&A) and Human Resource Management. In today's complex knowledge-driven economy, effective use of patent information while developing and introducing a new product may determine the success or failure of the product and, in turn, the success or failure of the company itself.

The Conference attracted a large participation of information specialists, researchers and students; many of whom presented research based studies, both in primary and secondary information domains, which added substantially to newer understanding in these areas. Many institutional case studies were also being presented. These carried a value of their own for the participants. SIS complimented Dr. Hirwani and other members of the Organizing Committee for planning it so well. We are grateful to Dr. Craig Stephens, Vice President, CAS for agreeing to deliver the inaugural address on a topic of seminal importance to this conference.

Since 2012, SIS have started S. Nagarajan Memorial Oration. Late Sh. Nagarajan was a founder member/office bearer of SIS who added, during his times, a lot of value to the growth of SIS. This Oration is being financially supported by his family in his memory. For the year of 2013, Dr. B C Sharma a learned colleague of Sh. Nagarajan delivered this Oration. The whole family of SIS,thanks the family members of Late Sh. Nagarajan- his wife Mrs. LalitaNagarajan, son Dr. KarthikNagesh and daughter Mrs. Hema- for their munificence.

President SIS, thanked URDIP and NCL, particularly Dr. Saurav Paul, Dr. Hirwani and participants. This Convention and the Conference was held for the 3rd time in Pune and in an Institution which by all accounts is the torch bearer of Indian science.

## Latest from the Field:

## THE FUTURE OF LIBRARIES AND INFORMATION SERVICES

http://www.online-information.co.uk/static/new-models-for-information-service-provision

*EllyssaKroski, Director of Information Technology, New York Law Institute, USA*

With more and more content going digital, many in the library world are questioning what the future holds for us in this new landscape. Libraries are faced with responding to a dramatic shift in how patrons are accessing and consuming information in this new digital age in tandem with dwindling budgets, fierce competition from other markets, and rising patron (and organisational) expectations. We used to be the only game in town, but now we share it with the likes of Google, Amazon, Netflix, and Apple. Can we compete in an instant access, on-demand world? Do we need to? Will libraries continue to serve as the connection between people, information, and technology? Or will we be the next Blockbuster or Encarta, marginalised to extinction? What do we need to do in order to survive and thrive in this ever-changing, technologically robust era?

## KEY SUCCESS FACTORS FOR IMPLEMENTING NEW ROLES AND ORGANISATION FOR INFORMATION PROFESSIONALS

In order to face the numerous challenges of this decade, with a technological environment permanently on the move, and users gaining more and more autonomy, information professionals are looking for redefining their roles and their missions within their organisations. They encounter more and more pressure to prove their added value, and must remain very close to users needs in order to provide adequate responses in terms of products, services, and organisation.

Based on several studies carried out recently by the company - including a benchmarking survey for the French Ministry of Defence - the article presents examples of solutions which were implemented in French big companies. It shows how information management organisation may totally shift from centralisedcentres to networks, in which nodes are information professionals posted within users department. It depicts which new roles information professionals define for themselves and their teams, in order to bring more added value to their organisation. It reveals keys of success, for an efficient adaptation of information management organisations, with the objective of fitting closely to companies new requirements.

Detailed analysis of case studies is provided, and will be a solid incentive for information professionals reflection on their role and the way it may evolve. Feedbacks which are described have been really implemented on the ground, and represent a sample of best practices able to generate new ideas and new solutions. Such topics as missions, place within the company organisation, number of staff, part of subcontracting, relationship with users will be addressed. Information professional tasks should be observed along three

sub-functions: information management, information monitoring and knowledge management. For each of these sub-functions, the role of information professionals versus autonomous users, the description of the implementation process need to be analysed.

## BIG DATA IN HR

### A growing number of companies are trying to apply a data-driven approach to the unpredictable business of human interactions

ver wondered how Google manages to draw the best out of its engineers all the time? It does so with the help of a retinue of smart managers. The data mining giant understands that managers have a much greater impact on employees' performance and how they feel about their jobs than any other factor. And how did it develop this insight? Not by chance, nor by accident. Its 2009 initiative, code-named Project Oxygen, cranked out what is referred to in popular media as the "Eight Habits of Highly Effective Managers" - traits that have been incorporated into its various training programmes and have given the company "statistically significant improvement in manager quality for 75 per cent of the worst-performing managers," according to various reports.

While Google was smart in applying knowledge gleaned from months of research to better manage its workforce, several other companies are still learning the ropes. But the fact is workforce analytics is hot topic in HR discussions today and a capability in high demand. To use the words of an eQuest whitepaper, for human resources in particular, big data marks a "historic opportunity" to make the "most rigorously evidence-based human-capital decisions ever".

Relevant, according to experts, in the three core areas of talent acquisition, learning and development and employee engagement, the challenge now is to derive value from analytics. As Aditya Narayan Mishra, president staffing, Randstad India, puts it, "Analytics helps HR find the blind spots in the company - identify departments that are doing better and what influences success and how it can be replicated elsewhere in the company."

Of the three areas, the most important, of course, is the value analytics can add in improving employee engagement and in pinpointing the correlation between engagement and performance, retention/attrition, growth of people in an organisation. "A company can map the correlation between the recruitment cost and customer satisfaction scores, for instance. It can apply modelling with different kinds of weightage and predict things like which departments the new leaders are coming from," says Rajiv Krishnan, partner and leader, people &organisation Practice.

Ref: http://www.business-standard.com/article/management/big-data-in-hr-114100500550_1.html

## USEFUL DATA MINING  & CRM REFERENCES:

If the readers would like to get more information on data mining and CRM, they might go to following sites:

- Introduction to Data Mining and Knowledge Discovery by Two Crows Corporation. This concise overview of data mining provides a great introduction to the field of data mining. Two Crows  is one of the leading consulting groups in data mining.
- Pan For Gold In The Clickstream by Herb Edelstein (Information Week). An excellent article on the practical application of data mining to business problems. Herb is one of the leading proponents of making data mining useful in real world situations.

- Data Mining on the Web:  There's Gold in that Mountain of Data by Dan Greening (Web Techniques Magazine).  A good article on what data mining and personalization can do to improve interactions with web site visitors.

- A Comparison of Leading Data Mining Tools (PDF format). A presentation by John F. Elder IV and Dean W. Abbott from the KDD'98 data mining conference. A thorough comparison of most of the important software applications in the data mining space. Although a bit dated, this presentation is still a useful read.

- Visual Database Exploration Techniques (PDF format). A set of tutorial notes by Professor Daniel Keim, University of Munich. An extremely complete look at visualization techniques for data mining and data analysis.

- Knowledge Discovery Nuggets. This site is a great starting point. KD Nuggets contains a very large collection of links to data mining companies, conferences, and software.

- SIG KDD Explorations.   This is the online publication of the data mining special interest group of the ACM.  A good place to check for recently published technical work.

- The Data Warehousing Information Center. A site with very thorough coverage of data warehousing, OLAP, decision support, and data mining. Includes introductory information plus a lot of information on vendors.

## EMERGING CAREER ROLE: POPULATION HIM

http://health-information.advanceweb.com/News/Industry-News/Emerging-Career-Role-Population-HIM.aspx

Population health management will offer a huge opportunity for health information management professionals who gain expertise in the new specialty, according to an article published in the Journal of the American Health Information Management Association.While most healthcare providers see the critical importance of [population health management], they do not have the information technology, the required understanding of [population health information management], or the data-management skills and resources [necessary to use it]," writes Bonnie S. Cassidy, senior director of HIM innovation at Nuance Communications.

HIM professionals must take the lead in information governance, clinical documentation integrity and quality data analytics to help organizations understand how the flow of information affects efforts to manage population health, she said.Implementing EHRs won't be enough. EHRs generally don't contain information on the care that patients have received outside an organization, and they aren't designed for interoperability, she pointed out. Population health management means using EHRs and physician practice-management systems to identify gaps in care, stratify risk, provide care management, and evaluate performance. It might mean identifying and reaching out to those with diabetes and high blood pressure who have not been to see their doctor in a while.

Data analytics can be used to help build rules-driven alerts for the care team for more effective preventive care and chronic disease management. She foresees population health management being integrated into EHR systems, requiring PHIM pros to have deep knowledge of this technology to provide recommendations to care teams on clinical documentation."Those excelling in PHIM will be able to innovatively assess and stratify patient demographic and ICD-10 data into existing and emerging categories, such as categories for those that are well, at risk, and living with chronic conditions," she said. Beyond data integrity, she foresees the role expanding to data privacy, security and more.

# SOCIETY FOR INFORMATION SCIENCE
## (FOUNDED 1976)
### Life Membership form*


**Full Name**                                    :

**Date of Birth**                                :                          **Sex**   : *Male / Female*

**Mailing address**                        :

                                                                                 **Pin code :**

**Phone :**                                                          **Fax**        :

**E-mail :**

**Academic qualifications :**

**Professional qualifications :**


**Post currently held (please mention designation, department and institute)   :**

**Length and type of experience**                    :


**Honours/awards won, if any**                       :


**Publications during the last 2 years**             :


**Date :**                                                       **Signature of the applicant**     :


*Life Membership Subscription: Rs. 2500.00/- (w.e.f. August 2011) Cheque/DD should be in favour of Secretary, SIS payable at Syndicate Bank, NPL (PUSA) Branch, A/C Number: 91002010009238, IFSC Code: SYNB0009100 ; Micr Code "110025087" New Delhi. Filled application with Cheque /DD have to be sent to Mr N. K. Wadhwa, Secretary-SIS, C/o National Physical Laboratory,(NPL)(CSIR), Dr K S Krishana Marg, New Delhi- 110012, India       Contact : (Mobile) +91 9350090040

# 'IMTECH-SIS 2014'

## 31st National Convention & Conference of SISOnBIG DATA Mining

## (The Concepts, Methods and Applications)

### Organized by

### CSIR-Institute of Microbial Technology, Chandigarh
### (November 27-29, 2014)

# REGISTRATION FORM

Name Prof./Dr/ Mr./Mrs/Ms:..............................................................................................................

(First Name)                    (Last Name)

Designation: ...........................................................................................................................................

Department: ...........................................................................................................................................

Organization: ...................................................Address: ……………………………………………………………………

City………………………. State………………….…...Postal Code …….…...……………

Telephone: ……………………. Mobile No: ………………… E-mail: …………….……………....

**Do you require accommodation** (Yes/No): ---------------------- (The charges for accommodation (sharing basis) will be Rs. 500/- per day per bed. Please add the accommodation charges in your cheque/ draft)

| Traveling Details | | | |
|---|---|---|---|
| Travel Plan | Date | Time | Mode (Bus/Train/ Air details) |
| Arrival | | | |
| Departure | | | |

Date………………………                    Signature………………………………………………

**Mail the Registration Form to:**  Dr. G. P. S. Raghava, Scientist & Bioinformatics Centre, CSIR-IMTECH, Sector-39A, Chandigarh 160036

Email: Raghava@imtech.res.in, Web: http://www.imtech.res.in/raghava/ , Phone: 0172-2690557

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