



## Banking Technology Awards 2002

Dr. Bimal Jalan, Governor, Reserve Bank of India, gave away the prestigious IDRBT Annual Banking Technology Awards at a glittering ceremony on October 24, 2002.

Addressing the CMDs and EDs of Public Sector Banks on the occasion, Dr. Jalan stressed that technology implementation was no more a choice, as success of business was being determined by IT. He urged the Public Sector banks to rapidly increase the use of technology to cut costs and increase the volume of business.

Shri. Vepa Kamesam, Chairman, IDRBT and Deputy Governor, RBI, announced the winners and apprised the august gathering of the focus of initiatives taken by IDRBT to facilitate technology absorption in the banking sector, pointing out that the Institute becoming a Certifying Authority is a milestone in this direction. He called upon the Bank Chiefs to take full advantage of the R&D facilities and capabilities of IDRBT.

The selection committee for this year's Awards was headed by Shri Rajeeva Ratna Shah, Secretary, Department of Information Technology, Ministry of Communication and Information Technology, Government of India. The other members of the

selection committee were: Dr. S. Ramani, Former Director of NITIE, Mumbai, Dr. R.B.Barman, Executive Director, RBI, Shri. K.C. Chowdhary, Secretary, IBA and Dr. V.P. Gulati, Director, IDRBT.



Dr. Bimal Jalan, Governor, RBI with (left to right) Shri G.P.Muniappan, Dr. V.P. Gulati, Shri Rajeeva Ratna Shah, Shri Vepa Kamesam and Shri Rakesh Mohan

The selections were based on rigorous evaluation criteria which covered various facets of technology implementation in banks such as Extent of Computerization, Networking Infrastructure, Technology Applications for improved house-keeping and MIS, Indian Financial NETWORK (INFINET) Applications, IT Security Audit, IT Training, In-house Software Development, ATM Installations, Customer-centric Applications, New Initiatives, Spread and Usage of INFINET etc.

The evaluation was a two-stage process in which the top performers were first short-listed and the contenders from this group were subjected to

closer scrutiny and comparison on all vital parameters of performance for the year July 2001-June 2002 for selecting the ultimate winners.

Shri. Rakesh Mohan, Shri. G.P. Muniappan, Deputy Governors of RBI, Shri.R.R. Shah, Shri.K.N. Gupta and Members of the Governing Council of IDRBT were the other dignitaries who graced the occasion with their presence.

## ANNUAL CONFERENCE

### Conference of CMDs and EDs of Public Sector Banks

The Annual Conference of the Chairman and Managing Directors (CMDs) and Executive Directors (EDs) of Public Sector Banks was convened at IDRBT on October 24, 2002. Synchronised with the Foundation Day Celebrations of the Institute, the Conference aimed at taking stock of the technology implementation and the road ahead for the Public Sector Banks.



Shri Rajeeva Ratna Shah inaugurating the conference

Dr. V.P. Gulati, Director, IDRBT, initiated the proceedings highlighting the significance of the occasion and drew attention to the role and importance of IDRBT, specifically with its becoming the Certifying Authority. The theme chosen for this year's conference was "Technology Adaptation and Security Concerns".

Inaugurating the Conference, Shri. Rajeeva Ratna Shah, Secretary, Ministry of Communications and Information Technology, Govt. of India, talked at length about the need for non-stop availability of safe and secure banking and financial services (24/7/365), the concomitant threats and challenges arising there from in terms of intrusions, disruptions and other serious threats. Calling for strong and scientific preventive, disaster recovery and management systems, Shri Shah urged the banks to adopt a progressive attitude for financing IT induced industrial growth and focus more on Internet Banking & Automation of Forex operations

The next event, the CMDs Forum, focussed on sharing the concerns of the bank captains in technology absorption. It was chaired by Shri. R.R.Shah, and the panel members were :

- Dr. Dalbir Singh, CMD, Central Bank of India
- Smt. Ranjana Kumar, CMD, Indian Bank
- Shri K. Cherian Varghese, CMD, Corporation Bank and
- Shri B. D. Narang, CMD, Oriental Bank of Commerce

Initiating the panel discussion, Shri. R.R. Shah requested Dr. Dalbir Singh to present his views. Dr. Dalbir Singh drew the attention of the audience to the major stumbling block for technology adoption – the average age profile of the work force in banks, especially at the middle and senior management levels. More efforts will have to be put in for change management, reorientation and re-skilling, he said. The Govt. will have to do its part by making necessary changes in the acts like the Negotiable Instruments Act and the Indian Evidence Act, to enable banks to take full advantage of the electronic transactions as envisaged by the IT Act 2000, he added.

Smt. Ranjana Kumar emphasised the need for networking bank branches to improve risk management and ALM. While voicing concern on the security threats in the electronic environment, she called for strengthening the IS Audit Force in banks. She emphasised that the time has come for public sector banks to seriously ponder over the ways of creating common infrastructure like Data Centres, ATM Switches and Networks and even Software solutions like Core Banking etc., to become a team in the market place. Standardisation for hardware and software requirements for our specific needs is the urgent need of the hour, she concluded.



Shri K. Cherian Varghese, Dr. Dalbir Singh, Shri Rajeeva Ratna Shah, Dr. V.P. Gulati, Smt. Ranjana Kumar and Shri B.D. Narang during the Panel Discussion

Shri. K.C. Varghese underlined the need for technology absorption as a matter of compulsion, and not choice, to face the keen competition. He also agreed on the need for public sector banks to share technology infrastructure, to reduce costs and optimise returns on investment. For technology to make a real impact on decision making, banks should adopt electronic documents and digital signatures at the earliest, he said. He suggested that IDRBT could come out with appropriate guidelines or benchmarks for standardised solutions to facilitate banks in the current environment.



Shri. B.D. Narang pointed out that staff redeployment has become a major issue posed by technology implementation. He also highlighted the following paradoxes:

- Back office computerisation in banks has not kept pace with the Front office computerisation.
- Investments in Technology have increased but returns on such investments have not been good.
- We have brought in computerisation in banks but not the IT culture.
- We get reams of data but very little MIS.

He also underscored the need for sharing capital-intensive technology infrastructure and called for measures for standardisation of reengineered systems and procedures and hardware and software requirements for the industry.

Shri. R.R.Shah in his concluding remarks assured that the Ministry of IT will work closely with IDRBT to address some of the key concerns of the banking industry. He mentioned that the Ministry has initiated a project for multi-purpose Smart

Cards which may be used for citizen identity, stored value for financial services, e-governance interfaces etc. This card may be very useful for banks in customer identification, credit information tracking and monitoring etc.

The next session, on 'Challenges and Issues in Technology Adaptation and Security,' was chaired by Shri. K.N. Gupta, Controller of Certifying Authorities, Govt. of India. The Panel consisted of:

- ◆ Dr. V. P. Gulati, Director, IDRBT
- ◆ Prof. Deepak B. Phatak, IIT, Mumbai
- ◆ Shri R. Gandhi, CGM, DIT, RBI and
- ◆ Shri D.P. Vaidya, Vice President, HECL

Dr. Gulati shared his concerns on the state of the banking industry and stressed on the need to be fully aware of the fact that IT happens to be the key to differentiation, competitive edge and institutional survival. He stressed on the need for marketing the bank within to the employees, integration of the business goals and processes with the IT strategy and innovative and measurable change management processes to get the best out of technology implementation in banks.

Prof. D.B. Phatak underlined the need for cost reduction in acquiring technology solutions. We should try to take advantage of the emerging world of free operating systems and other application



Shri R. Gandhi, Shri K.N. Gupta, Dr. V.P. Gulati, Prof. D.B. Phatak and Shri D.P. Vaidya during the Second Panel Discussion

software, he said. Enterprise Application Integration has to be taken up on top priority to get the best out of the various solutions deployed across the banks and an Active Data Warehouse needs to be promoted, he added. Innovative management solutions are needed to tackle the HR issues arising out of implementation of core banking solutions, he said.

## WORKSHOP

Shri. R. Gandhi spoke at length on the issues in implementing IS Security Measures. He pointed out that the tendency to be accommodative in cases of security breaches just because they do not result in immediate disasters is treated more as a cultural issue and not an operational issue and we should try to overcome this at the earliest. Peer group pressure should be built up to ensure strict adherence to the laid down norms and deviations will have to be brought to book, to ensure a climate of compliance, he added.

Shri. Vaidya spoke on network technology perspectives and dwelt on the choice of media and choice of network based on application

requirements. He concluded by offering a package of desired solutions for various requirements of banking operations.

Shri K.N. Gupta drew the attention of the audience to the need for using the PKI infrastructure to provide the much needed security to banking transactions and also to bring down the cost of operations by authenticating transactions digitally and making them flow easily within and between banks.

The afternoon session of the day was dedicated to presentation of the Banking Technology Excellence Awards 2002.

### Workshop for IT Chiefs of Public Sector Banks

The Workshop for the IT Chiefs of the Public Sector Banks, organised by the Institute a day prior to the CMDs and EDs Conference, provided a forum to deliberate on issues like maintenance and upgradation of the INFINET, implementation of SFMS, setting up of Registration Authorities in banks under IDRBT CA for PKI, Concerns of RBI in technology upgradation and legal issues in technology implementation.

Dr. Gulati set the ball rolling with his welcome address, wherein he touched upon the current initiatives of IDRBT, issues, concerns and the role of banks.



Dr. V.P. Gulati, Prof. S. Sadagopan, Shri H. Krishnamurthy and Dr. A.M. Pedgaonkar at the inaugural session of the workshop

Delivering the keynote address on "IT in Banking – Issues and Concerns", Prof. S. Sadagopan, Director, IIIT, Bangalore, traced the evolution of technology in banking and said we have now reached a stage where IT is the major differentiator between banks. Product innovation, risk management, customer service and satisfaction are all supported by latest technology, he said. Fine

tuning and re-engineering business processes will be the key to effective implementation of technology to achieve optimum results, he added. The focal points of his address were :

- Public sector banks should think beyond simple automation
- Domain would dominate and IT Pro's speaking

Banking would win

- Outdated systems should be discarded and Public Sector Banks should formulate strategies to overcome competition and to change in tune with the times and market needs.

The next session on INFINET,

covering the present status, proposed upgradation, support procedures, Mail Messaging System, proposal for broadband upgradation of the VSAT network and other related issues was handled by Shri N Rajendran, Faculty, IDRBT. The various areas requiring cooperation of the banks in maintaining optimum service levels were highlighted as :

- the feedback of the banks regarding the various applications planned along with the bandwidth requirements would facilitate allocation of optimum bandwidth
- TDM/TDMA VSATs not to be used for aggregating the traffic
- adherence to Help Desk procedures would help the banks to avail timely support.

Shri Sethi, HECL shared the Road Map for Broad band upgradation and highlighted the various applications banks could consider using in the upgraded broad band environment. There was a discussion on the performance issues and banks were requested to coordinate with IDRBT to plan in advance to avoid any bandwidth related issues.

IDRBT CA Services were discussed in detail by Dr N P Dhavale in the next session. The procedure for setting up Registration Authority Office (RAO) and the modalities for issuance of certificates to



bank employees and the formalities to be observed as per the Certificate Practice Statement (CPS) were all explained and discussed. It was also mentioned that on the basis of feedback received from banks regarding CA services, formalities and documents to be executed by banks and employees, necessary changes are being made.

The next session was on “Networking – Issues and Concerns” by Shri.H. Krishnamurthy, Principal Research Scientist, IISc, Bangalore. He dwelt at length on the need for proper selection of network and optimising the network infrastructure. Application profiling and prioritisation must be given due importance for efficient performance of the networks, he said.

The presentation on SFMS Implementation issues was made by Shri A P Raja. Salient features of Version 2.2 of SFMS like the Common Gateway Branch Server, Offline Servers for Remote Branches, Three User Levels, Password based

access for Creator users, Message Template Storage Option were explained. Tentative schedule for updating existing users of SFMS and implementation of the new version in other banks was also discussed. It was pointed out that since SFMS is PKI enabled, banks will have to set up their RA offices at the earliest to go ahead with SFMS implementation.

This was followed by a presentation on Business Continuity Plan and Disaster Recovery Systems by Shri C. Kajwadkar, Vice President, NSE.IT. With the experience gained in the actual implementation of BCP/DRS for NSE, Shri Kajwadkar shared his concerns and touched upon all aspects of the issue like business impact analysis, continuity planning,

data collection, strategy selection, disaster recovery planning, testing the plan and constant review etc.

The next session was on “Perspectives and Concerns of RBI in Technology Upgradation” by Dr. A. M. Pedgaonkar, CGM, DIT, Mumbai. He

updated the audience on the RBI initiatives and the status, usage and development of inter-bank applications like PDO-NDS, CFMS, CFTS and RTGS. He also impressed upon the banks the need to implement SFMS at the earliest.

The valedictory session was on “Legal Issues in Technology Implementation” by Shri N. V. Deshpande, Principal Legal Adviser, RBI. He spoke on the interplay of forces between Law and Technology. Technological advances should not result in abridging the legal rights of parties and legal enactments need not come in the way of technological evolution and a delicate balance needs to be maintained to ensure equitable growth and comfortable evolution, he said. IT Act 2000 bestows legal recognition for electronic documents, digital signatures paving the way for efficient electronic payment systems, he added.

The workshop ended with a vote of thanks by Shri. S.Sankara Subramanian, Adviser, IDRBT.

### Seminar on Banking IT Products

Bringing together prominent vendors in the area of Banking IT Products and all the IT Chiefs on a single platform is the best way for sharing success stories and key concerns, thereby helping the banks in chalking out a plan for effective implementation. This was the concept behind the seminar on Banking IT Products, held at the Institute on October 22, 2002.

The seminar started off with a welcome address by Dr.V.P. Gulati, Director, IDRBT. He said that this seminar was conceived by IDRBT to address the current concerns of bankers in reaching out to their customers through Core Banking, Financial Transaction Switching and Internet Banking and urged the delegates to make the best use of this opportunity.

Dr. R. B. Barman, Executive Director, RBI, in his inaugural address congratulated IDRBT for organising this seminar which seeks to fulfil the felt needs of the banking

community. Since we are getting into these areas long after the western countries did, we have the advantage of avoiding the pitfalls and iterations in implementation and can leap-frog, he said. The need for ensuring reliability, availability and security of these services at optimal cost and to explore ways and means of sharing the infrastructure and resources must assume top priority, he added.

The first session was devoted to presentations on Core Banking by six vendors: Sanchez Capital Services, I-Flex Solutions, CMC, TCS, ICICI Infotech Services and Infosys Technologies. The second session was on Financial Transaction Switching by two vendors: Financial Software & Systems and Opus Software Solutions.

This was followed by a presentation on IT Outsourcing by Electronic Data Systems. The final session included presentations on Internet

Banking by three vendors: CMC, Infosys Technologies and Satyam Computer Services.

The presentations and the interactions that followed covered a wide gamut of issues like product features, benchmarks, scalability, networking options, implementation platforms, modules, options, data movement and management, prominent installations, alliances, learning experiences in implementation, size of project team from banks and vendors for implementation, outsourcing options and the different models etc.

The seminar provided the participants with an insight into a host of issues that should be taken care of in a systematic manner to implement technology in these core areas.

The three major concerns that emerged from the deliberations are:

- the need for evolving measures for redeployment of surplus staff from branches where these core technologies are implemented
- the need to reorganise and strengthen the training system in banks to cater to the large scale training requirements for implementing technology.
- the need to explore ways and means of sharing ATM Networks and Switches and other IT infrastructure like data centres and even core banking solutions to get the most out of technology at optimal cost for the PSBs as a group and also to provide the customers with a much better reach and sweep for cost-effective and convenient banking.

The seminar came to a close with Shri.V.Visweswar offering a vote of thanks to the vendors and participants for their active participation and interaction.



Shri V. Visweswar, Dr. V.P. Gulati, Dr. R.B. Barman and Shri S. S. Subramanian during the seminar

### National Seminars on Information Security

Effective Security measures are an integral part of the Payments System, especially in the light of the diversified financial services offered by Banks and Financial Institutions that envisage Information Flow across Public/Private Networks.

The Institute in collaboration with the Society for Electronic Transactions and Security [SETS] conducted a series of National Seminars on Information Security across the country, to provide a concerted thrust to protecting the Information Resources in this IT era and for drawing up the roadmap for countering the various security threats. While the First Seminar was held at Bangalore on Sep 13, the others were held at Hyderabad on Sep 27, Chennai on Oct 29 and Mumbai on November 28, 2002.

Shri Vepa Kamesam, Dy Governor, RBI and Chairman, Governing Council, IDRBT, inaugurated the first seminar. Speaking on the occasion, Shri Kamesam called upon the banks to make demands upon IDRBT and make best use of the infrastructural facilities provided by the Institute. Expressing concern at the slow pace of utilisation of the facilities available through the INFINET, he stressed that banks use the SFMS and other Security services on the INFINET in a big way.



Shri Vepa Kamesam, Dy. Governor, RBI, lighting the lamp to inaugurate the First National Seminar at Bangalore as Dr. V.P. Gulati looks on

The Seminar at Hyderabad was inaugurated by Dr. R.B. Barman, Executive Director, RBI, and the Seminars at Chennai and Mumbai were

inaugurated by Shri P.K. Biswas, Principal, RBI Staff Training College and Dr. R.H.Patil, Chairman, Clearing Corporation of India Ltd., respectively.



A section of the audience during a National Seminar

Bringing together the best minds, experts and professionals in the arena of Information Security, these seminars focussed on various issues of urgent relevance such as Information Security – Vision, Needs and Strategy, Financial Network Security, Current Research in Information Security, Banking Application Security, PKI Implementation Issues, BCP/DRP, Information System Audit and Security Initiatives of SETS. There was also a panel discussion during the seminars to clarify the queries of the delegates and draw up a roadmap for the future.

Dr. V.P. Gulati, Director, IDRBT; Prof S.V.Raghavan; Prof Ashok Jhunjhunwala, IIT Madras; Shri. H. Krishnamurthy, Principal Research Scientist, IISc, Bangalore; Dr. M.S. Vijayaraghavan, SETS; Shri Bimal Bhavanani, Associate Director, Price WaterHouse Coopers; Shri T. Sivaram, Ideospace, Bangalore; Shri Niraj Kapasi, ISACA, Hyderabad; and Shri Rakesh M Goyal, MD, Sysman Computers, were some of the eminent speakers at the seminars.

The Seminars at Bangalore, Chennai and Mumbai were coordinated by Shri D.P. Dube, Project Consultant, IDRBT, and the Seminar at Hyderabad was coordinated by Shri N. Rajendran, Faculty, IDRBT

**Principals' Conference on E-Learning**

A Principals' Conference on E-Learning was held at the Institute on 18<sup>th</sup> and 19<sup>th</sup> November 2002. This Conference was of particular significance because IDRBT will be launching the Web Based Post Graduate Programme in Banking Technology Management shortly.

The Conference began with the Welcome Address by Dr.V.P.

Gulati, Director, IDRBT. In his address, he talked about the global trends in E-Learning and also the efforts taken so far in India in this regard

and pointed out that on the whole the technology is still in its infancy.

He said IDRBT is getting ready to launch its Post Graduate Programme in Banking Technology Management (PGPBTM), shortly, as part of its E-Learning initiatives. He sought the cooperation of the Staff Training Colleges(STCs) of Banks in developing content for the PGPBTM.

He also announced that IDRBT is now ready to offer hosting services for E-Learning through the WebCT Learning Management System, which is already installed and functioning in the Institute. He requested the banks to use this infrastructure to offer to their staff members E-Learning services



like pre-training coaching or assessment, post-training follow-up, reinforcement and continuing education activities etc.

Among the issues discussed include the scope and activities of the Centre for E-Learning Technologies and Applications (CELTA) set up by IDRBT. As part of its activities, the CELTA wishes to bring together

the Faculty of all the Staff Training Colleges of Banks under one umbrella for effective and enriching sharing of information and knowledge in all matters and

areas related to banking operations, banking technology and strategic management of IT in banking.

Issues such as Trends in E-Learning, Technology and Tools for a Learning Organisation, Instructional Design and Content Development Life Cycle, Role of Banks in the **PGPBTM**, Enterprise Application Integration, Assessment and Collaboration Technologies for E-Learning, Trends in Authoring Tools for Course Development and Online Education through Broad band on a VSAT Network came up for discussions.

The Conference was co-ordinated by Dr. V.N.Sastry and Shri M.V. Sivakumaran, Faculty, IDRBT

**Workshop on IDRBT Certifying Authority**

A one-day workshop on IDRBT Certifying Authority (CA) was held at the Institute on September 17, 2002.

The workshop, aimed at familiarising the Banks and Financial Institutions with the functioning of the CA, and their roles and responsibilities, introduced the participants to PKI, IDRBT Certification Services, Policies, Procedures and the

Certificate Practice Statement. Bank Registration Authority Procedures and PKI Enabled Applications and other CA Issues too were deliberated upon.

Delegates from the Public Sector Banks, Private Sector Banks and Financial Institutions participated in the workshop, which was co-ordinated by Dr. N.P. Dhavale, Faculty, IDRBT.





### SFMS for State Bank of India

Three customised programmes on Structured Financial Messaging Solution were conducted for the State Bank of India from September 09-14, 23-24 and 26-28, 2002. While the first programme was for Implementers of SFMS, the second was for executives and the third was exclusively for Trainers.



Apart from providing extensive hands-on experience, these programmes discussed all aspects of the SFMS. Some of the issues that were deliberated upon in detail include SFMS Security, Message Formats, Offline Module Implementation, Troubleshooting and SFMS & RBI Initiatives.

All these three programmes were co-ordinated by Shri A.P. Raja, Project Consultant, IDRBT

### Networking Technologies

A six-day programme on Networking Technologies was conducted at the Institute from Oct 07-12, 2002.

The programme aimed at disseminating knowledge on WAN Technologies, Local Area Networks, TCP/IP, IP Addressing System, Networking Protocols, Routers, Routing Protocols, RIP, OSPF, VoIP, Network Security, Firewalls and IDS etc. It also provided focussed hands-on experience on the above topics.

Participants from various Public Sector and Private Sector Banks and Financial Institutions participated in this programme, co-ordinated by Shri Varghese Jacob, Faculty, IDRBT.



### IDRBT receives ISO 9001:2000 Certification

IDRBT has been bestowed with ISO 9001:2000 Certification in recognition of its strictly adhering to and maintaining internationally accepted standards in its work processes. Shri Sanjay Kaushik, QMS Australia, handed over the Certificate of Recognition of IDRBT as an ISO 9001:2000 Institution to Dr. V.P. Gulati, Director, IDRBT on October 15, 2002.

IDRBT, as an institution, has constantly endeavoured to improve the

quality of each and every activity that it is engaged in. Feedback is an integral part of all the activities of the Institute, especially the programmes, so that different perspectives are considered while charting out the path ahead. Moreover, the progress and development in each sphere of activity is reviewed regularly to ensure that the Institute sets the standards and becomes a role-model for the entire Banking and Financial Sector.



Shri Sanjay Kaushik, QMS Australia, presenting the ISO Certificate of Recognition to Dr. V.P. Gulati, Director, IDRBT

## INTERNATIONAL CONFERENCE

## INDOCRYPT 2002

It is widely believed that the next war would be fought in the arena of Information and not on the conventional battlefield. With various countries getting inter-connected, resources are more vulnerable than ever to cyber attacks. That's precisely why several countries already have in place legislations to prevent theft of Information resources.

In the case of India, it is obvious that the past decade has witnessed the creation of wealth in the form of information at a phenomenal rate. But computerization and cryptographic research at the national level hasn't matched the desired pace. Therefore, the priorities at this stage include:

- Putting in place an infrastructure that is capable of recognizing and countering threats to information assets.
- Disseminating security awareness through appropriate means, such as conducting training programs, publishing a list of do's and don'ts, and so on.
- Creating a secure communication infrastructure to foster the creation of national wealth.
- Promoting a culture of security consciousness.
- Creating a mechanism for monitoring and upgrading the adherence to sound security practices.
- Rendering the above infrastructure universally accessible and affordable.
- Identifying (and removing) legal obstacles to the creation of wealth in the form of information assets while maintaining security.
- Ensuring that the technologies developed as a part of the mission are used for multiple purposes.
- Redefining the process of governance using Information Technology (IT).

It is to bring to the country the best that is being conceptualised and researched that the Institute in collaboration with the Cryptographic Research Society of India (CRSI) is organizing, INDOCRYPT

2002, the Third International Conference on Cryptology, from December 16-18, 2002.

The Conference will provide a high quality forum for researchers, scientists, and academicians to interact and present their latest research findings in the rapidly evolving field of Cryptology.

INDOCRYPT has grown to emerge as one of the major International Conferences in India and it has become the premier forum for presentation of the latest research and development in the critical area of Cryptology. The Conference will have various technical sessions devoted to contributed papers, invited talks, panel discussions, and tutorials. The focal areas of the Conference include:

- Symmetric Ciphers
- New Public-Key Schemes
- Public-Key Infrastructures
- Fingerprinting and Watermarking
- Boolean Functions
- Efficient and Secure Implementations
- Anonymity
- Secret Sharing and Oblivious Transfer
- Cryptographic Applications
- Public-Key Protocols.

Preceding the Conference will be a two-day tutorial on December 14-15, 2002. Since penetration of Cryptology in India isn't deep and widespread, a 1/2-day tutorial has always been a part of this conference on cryptology. This started in Calcutta with the first Indocrypt and continued at Chennai. The tutorials provide a good opportunity to get to know some of the current theoretical/applied areas of the subject. This year's tutorials include :

- Constructive Applications of the Weil and Tate Pairings by **Alfred Menezes**, University of Waterloo
- Network Security Primer by **Brett Howard**, Alcatel, Canada

Dr. R. Chidambaram, Principal Scientific Adviser, Govt of India and DAE Homi Bhabha Professor, will inaugurate INDOCRYPT 2002.

## IDRBT Journal of Banking Technology

The IDRBT Journal of Banking Technology, to be launched shortly, invites original contributions from authors in the form of articles, research-based papers, case studies on technology management and change, and on topics of current interest and broad relevance to application of technology in Banking and Financial services. The Journal would be published twice a year.

### Objectives of the Journal

- to encourage new ideas, seminal theories and conceptual frameworks in the various disciplines of Information Technology
- to disseminate such new concepts and ideas, research papers that have a broad relevance and applicability to technology adoption, upgradation, absorption and innovation in Banking and Finance
- to provide useful inputs for the managements of banks and financial institutions and to help them in formulating strategies and policies for technology deployment and management in their enterprises.

### Editorial Board

The Editorial Board consists of leading luminaries from IITs, IIMs and other reputed academic institutions.

### Format of Contributions

- Manuscripts must be in English.
- Manuscripts for publication should be typed in double line spacing, only on one side of the paper with a margin of one inch on both sides.
- Manuscripts must be sent in quadruplicate.
- Manuscripts should not exceed 10,000 words (20 to 40 A4 size pages).
- An electronic version should be submitted in Word Format, in a new, freshly formatted floppy disk or through email to the [editor.jbt@idrbt.ac.in](mailto:editor.jbt@idrbt.ac.in)

- All details of the author/s should be on a separate cover page. The main article or paper should not contain any reference to the author/s to facilitate blind review process.
- Footnotes must be kept to the minimum and should be serially numbered throughout the manuscript.
- British spellings to be used throughout (programme, centre, computerised etc.)
- References should be complete in all respects and arranged in alphabetical order.
- References within the body of the article should appear as follows: Shyam(2000) has observed Or As already commented by (Gopal, 1987; Lakshman 1999)...
- All other publications, journals should be listed as follows: Damodar, KN (1997). "Asset Liability Management in Banks" *The Banker, Vol 10, No 5, pp 65-71.*

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# Glimpses of



# Banking Technology Awards

Shri Vepa Kamesam proceeding for the Banking Technology Awards Presentation Ceremony with Dr. V.P. Gulati and Shri R. Gandhi



Dr. Bimal Jalan, Governor, Reserve Bank of India, addressing the CMDs and EDs of Public Sector Banks during the Awards Function



Shri S.S. Kohli, CMD, Punjab National Bank with his GM Shri S.K. Awasthi receiving the Best Bank Award for Excellence in Banking Technology



Shri R.V. Shastri, CMD, Canara Bank with his GM Shri R. Murali Krishna receiving the Special Award for Excellence in Banking Technology



Shri K. Cherian Varghese, CMD, Corporation Bank with his GM Shri M.D. Mallya receiving the Best Bank Award for INFINET Usage and Applications



Shri B. Vasanthan, CMD, Andhra Bank with his GM Shri Yogeswar Kumar receiving the Special Award for INFINET Usage and Applications



A view of the audience during the Awards Ceremony