



farewell

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- 31 31.07.06 **Dr R D S Kushwaha**
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- 32 31.08.06 **Dr(Mrs) M Srivastava**
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- 33 31.08.06 **Dr Ramhit Ojha**
Professor, Mathematics

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C.M.O., UEHCC
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Sr.Asstt., BHU Press

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- 86 31.08.06 **Shri Mata Prasad Singh**
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- 90 31.08.06 **Shri B N Tripathi**
S.O., Mechanical Engg
- 91 31.08.06 **Shri V K Giri**
Wireless Operator, C.P.O.
- 92 31.08.06 **Shri R S Prasad**
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Balanced approach a must for fiscal reforms in India

Advisor of Stock Holding Corporation of India Sri S Ramnathan said here on 24 February that a balanced approach was required towards financial sector reforms in India.

He was delivering the inaugural address at a national seminar on 'Financial sector reforms in India' at the Commerce Faculty.

He said, "India has still not reached a stage where the laissez fair policy can succeed. I am not against reforms but I reiterate there should be proper checks and balances in the financial reform policies," he said and added that the last 15 years had seen major improvement in the working of various financial market constituents. "Opening up of banking, insurance and mutual funds sectors to private sector institutions, deregulation of interest rates, introduction of capital adequacy norms for brokers, asset clarification etc. are just a few reforms introduced in the last 15 years," he said, adding, "But what is relevant is that reforms in the financial sector were never introduced in one stroke."

"The government and regulators introduced the reforms step by step enabling the public to understand them and the government/regulators to draw lessons from the experience before injecting the second dose," he said. Purvanchal University Vice-Chancellor Prof KP Singh presided over the function.

Condolence Message

A meeting of the teachers, students and non-teaching staff of the Faculty of Social Sciences was held on 01 April in the H N Tripathi Hall, to condole the sad demise (31.03.2006) of Prof B Qanungo, Ex-Dean, Faculty of Social Sciences, BHU.

Prof B Qanungo was the son of late Prof Kalika Ranjan Qanungo, doyen among historians of Medieval India who has written 'Sher Shah and His Times.' He was worthy son of a worthy father. He had a brilliant academic career. He did his MA in History & Western History from Lucknow University. He joined this University as a faculty member in 1954. He did his PhD on Lord Canning from Indiana History, USA. In addition to other academic assignments, he had written three chapters in vol IV of the Centenary History of the Indian National Congress edited by Prof M N Das. After the retirement of Prof Hira Lal Singh in 1975, he joined as Head, Department of History and Dean, Faculty of Social Sciences. He held these positions for two terms. He retired from the University service in January 1986. He was a teacher in true sense of the term. He was a very efficient Administrator also.

The members of the Faculty of Social Sciences, request to the Almighty that He should give peace to the departed soul and also give patience and strength to the bereaved family for this irreparable loss.



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Dr. Vishwanath Pandey
Officer on Special Duty (Publications)



Pharmacology

■ Dr Vikas Kumar*

Pharmacology: Past and Present

Although drugs have been a subject of ancient interest since ancient times, pharmacology is a relatively new discipline in the life sciences. The term pharmacology comes from the Greek words pharmakon, meaning a drug or medicine and logos, meaning the truth about or a rational discussion. Distinctions between the useful actions of drugs and their toxic effects were recognized thousands of years ago. As people tried plant, animal, and mineral materials for possible use as foods, they noted both the toxic and the therapeutic actions of some of these materials.

Past civilizations contributed to our present knowledge of drugs and drug preparations. Ancient Chinese writings and Egyptian medical papyri represent the earliest compilations of pharmacological knowledge. They included rough classifications of diseases to be treated, and recommended prescriptions for such diseases. While other civilizations made their own discoveries of the medicinal value of some plants, progress in drug discovery and therapeutics was minimal until after the dark ages. The introduction of many drugs from the New World in the 17th century stimulated experimentation on crude preparations. These experiments were conducted chiefly to get some ideas about the possible toxic dosage for such drugs as tobacco, nux vomica, ipecac, cinchona bark, and coca leaves. By the 18th century, many such descriptive studies were being conducted. How drugs produced their effects was, however, still a mystery.

The birth of experimental pharmacology is generally associated with the work of the French physiologist, Francois Magendie, in the early 19th century. Magendie's research on strychnine-containing plants clearly established the site of action of these substances as being the spinal cord, and provided evidence for the view that drugs and poisons must be absorbed into the bloodstream and carried to the site of action before producing their effects. The work of Magendie and his pupil, Claude Bernard, on curare-induced muscle relaxation and carbon monoxide poisoning helped to establish some of the techniques and principles of the science of pharmacology. It was in the German-speaking universities during the second half of the 19th century that pharmacology really began to emerge as a well-defined discipline. This process began with the appointment of Rudolf Buchheim

to teach material medica at the University of Dorpat in Estonia. Long taught in medical schools, material medica was concerned largely with questions about the origins, constituents, preparation and traditional therapeutic uses of drugs. Buchheim, however, called for an independent experimental science of pharmacology, involving the study of the physiological action of drugs. He established the first institute of pharmacology at the University of Dorpat in 1847.

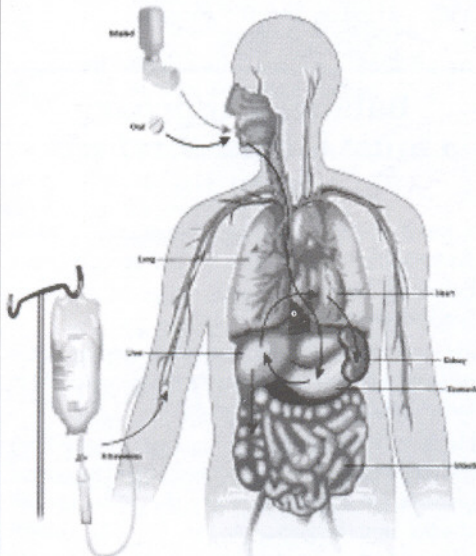
Among the students who received research training in Buchheim's laboratory was Oswald Schmiedeberg. In 1872, Schmiedeberg became professor pharmacology at Strasbourg, and over a number of years some 120 students from all

way for the triumphs of modern-day chemotherapy. The progress and contribution of 20th century pharmacology have been immense, with over twenty pharmacologists having received Nobel prizes. Their contributions include discoveries of many important drugs, neurotransmitters and second messengers, as well as an understanding of a number of physiological and biochemical processes. The field of pharmacology in general and the development of highly effective new drugs in particular have burgeoned during the last half of the 20th century. This unprecedented progress has paralleled similar progress in related disciplines upon which pharmacology builds: molecular biology, biochemistry, physiology, pathology, anatomy, and the development of new analytical and experimental techniques and instruments.

Opportunities and Challenges

In general terms, pharmacology is the science of drug action on biological systems. In its entirety, it embraces knowledge of the sources, chemical properties, biological effects and therapeutic uses of drugs. It is a science that is basic not only to medicine, but also to pharmacy, nursing, dentistry and veterinary medicine. Pharmacological studies range from those that determine the effects of chemical agents upon subcellular mechanisms, to those that deal with the potential hazards of pesticides and herbicides, to those that focus on the treatment and prevention of major diseases by drug therapy. Pharmacologists are also involved in molecular modeling of drugs, and the use of drugs as tools to dissect aspects of cell function.

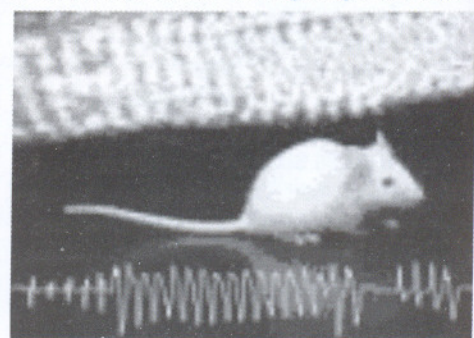
Integrating a depth of knowledge in many related scientific disciplines, pharmacologists offer a unique perspective to solving drug-, hormone-,



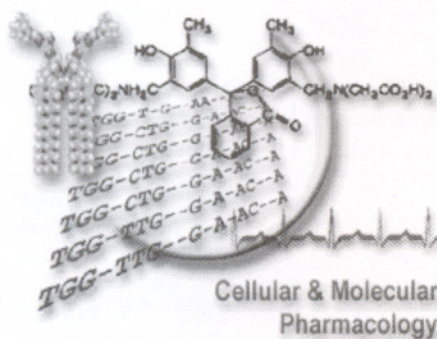
... A drug's life in the body...
Medicines taken by mouth...
... can pass through the four...
... tubes in the stomach...
... into the bloodstream...
... Other...
... routes of drug administration...
... bypass the first...
... attacking the...
... bloodstream.

over the world worked in his pharmacological institute. His students later occupied 40 academic chairs in pharmacology departments throughout the world. One of the most eminent of his many distinguished pupils was John Jacob Abel, who brought the new science of experimental pharmacology from Germany to the USA.

In the beginning of the 20th century, Paul Ehrlich conceived the idea of specifically seeking special chemical agents with which to treat infections selectively, and is thus considered the "Father of Chemotherapy." His work on the concept of the "magic bullet" treatment of infections paved the



* Reader, Deptt of Pharmaceutics, Institute of Technology, BHU



and chemical-related problems which impinge on human health. As they unlock the mysteries of drug actions, discover new therapies, and develop new medicinal products, they inevitably touch upon all our lives.

While remarkable progress has been made in developing new drugs and in understanding how they act, the challenges that remain are endless. New discoveries regarding fundamental life processes always raise new and intriguing questions that stimulate further research and evoke the need for fresh insight.

Scope and Subdivisions

Pharmacology is the study of the effects of chemical agents of therapeutic value or with the potential toxicity on biological systems. It includes two closely associated areas: pharmacodynamics and pharmacokinetics. Pharmacodynamics is the study of the molecular, biochemical, and physiological effects of drugs on cellular systems and their mechanisms of action. Pharmacokinetics deals with the absorption, distribution, and excretion of drugs. Pharmacodynamic and pharmacokinetic aspects of action of chemical agents also apply to related areas of study, including toxicology and therapeutics.

The pharmacological sciences can be further subdivided into these areas of research and education:

Neuropharmacology is the study of drugs on components of the nervous system, including the brain, spinal cord, and the nerves that communicate with all parts of the body. Neuropharmacologists study drug actions from a number of differing viewpoints. They may probe new ways to use drugs in the treatment of specific disease states of the nervous system. Alternatively, they may study drugs already in use to determine more precisely the neurophysiological or neurobiochemical functions of the nervous system that are modified by drug action. Neuropharmacologists also use drugs as tools to elucidate basic mechanisms of neural function and to provide clues to the underlying neurobiological nature of disease processes.

Behavioural pharmacology studies the effects of drugs on behaviour. Research includes topics such as the effects of psychoactive drugs on the phenomena of learning, memory, wakefulness, sleep, and drug addiction, and the behavioural consequences of experimental intervention in enzyme activity and brain neurotransmitter levels and metabolism.

Cardiovascular pharmacology concerns the effects of drugs on the heart, the vascular system, and those parts of the nervous and endocrine systems that participate in regulating cardiovascular function. Researchers observe the effects of drugs on arterial pressure, blood flow in specific vascular beds, release of physiological mediators, and on neural activity arising from central nervous system structures.

Biochemical and Cellular pharmacology uses the methods of biochemistry, cell biology, and cell physiology to determine how drugs interact with, and influence, the chemical "machinery" of the organism. The biochemical pharmacologist uses drugs as probes to discover new information about biosynthetic pathways and their kinetics, and investigates how drugs can correct the biochemical abnormalities that are responsible for human illness.

Chemotherapy is the area of pharmacology that deals with drugs used for the treatment of microbial infections and malignancies (cancer). Pharmacologists work to develop chemotherapeutic drugs that will selectively inhibit the growth of, or kill, the infectious agent or cancer cell without seriously impairing the normal functions of the host.

Clinical pharmacology is the study of pharmacodynamics and pharmacokinetics in human beings. Clinical pharmacologists study how drugs work, how they interact with other drugs, how their effects can alter the disease process, and how disease can alter their effects.

Drug Discovery, Drug Development, and Regulatory Affairs encompasses, but is not limited to; target discovery and validation, medicinal chemistry, combinatorial chemistry, molecular modeling and drug design, structure-pharmacological function relationships, functional genomics and proteomics, high throughput screening, identification and development of natural products, nutraceuticals, pharmacokinetics and pharmacodynamics, clinical testing and drug regulation/registration, clinical contracting and pharmacoepidemiology and pharmaco-economics.

Molecular pharmacology deals with the biochemical and biophysical characteristics of interactions between drug molecules and those of the cell. It is molecular biology applied to

pharmacologic and toxicologic questions. The methods of molecular pharmacology include precise mathematical, physical, chemical and molecular biological techniques to understand how cells respond to hormones or pharmacologic agents, and how chemical structure correlates with biological activity.

Endocrine pharmacology is the study of actions of drugs that are either hormones or hormone derivatives, or drugs that may modify the actions of normally secreted hormones. Endocrine pharmacologists are involved in solving mysteries concerning the nature and control of diseases of metabolic origin.

Systems and integrated pharmacology is the study of complex systems and whole animal model approaches to best predict the efficacy and usefulness of new treatment modalities in human experiments. Results obtained at the molecular, cellular, or organ system levels are studied for their relevance to human disease through translation into research in whole animal systems.

Drug Metabolism and Disposition is the study of the pharmacokinetics of drugs as well as the enzymatic metabolism of drugs.

Toxicology is the study of the adverse or toxic effects of drugs and other chemical agents. It is concerned not only with drugs used in the treatment of disease, but also with chemicals that may present household, environmental, or industrial hazards. Therapeutics focuses on the correlation of the actions and effects of drugs and other chemical agents with the physiological, biochemical, microbiological, immunological, or behavioural factors influencing disease. It also considers how disease may modify the pharmacokinetic properties of a drug by altering its absorption into the systemic circulation and/or its disposition. Each of these areas is closely interwoven with the subject matter and experimental techniques of physiology, biochemistry, cellular and molecular biology, microbiology, immunology, genetics, and pathology.

Veterinary pharmacology concerns the use of drugs for diseases and health problems unique to animals.

Pharmacology Education involves undergraduate, graduate degree programs, and professional education in medical, pharmacy, and veterinary schools.

Often confused with **pharmacology**, pharmacy is a separate discipline in the health sciences. It is the profession responsible for the preparation, dispensing, and appropriate use of medication, and provides services to achieve optimal therapeutic outcomes.



overview of research

**LIST OF CANDIDATES WHOSE NAME HAVE BEEN RECOMMENDED
BY THE RESEARCH DEGREE COMMITTEE FOR THE AWARD OF Ph.D./C"AKRAVARTI DEGREE
AT ITS MEETINGS HELD ON 09.12.2005, 06.02.2006, 01.03.2006, 11.05.2006**

Sl. No.	Name of Candidates	Name of Supervisor	Topic of Research	Subject	Year of Award
Faculty of Agriculture					
1	Amit Kumar Sinha	Prof R P Singh	Weed Management in Wheat as Influenced by Tillage, Cultivar and Herbicides	Agronomy	2005
2	Vinod Kumar Singh	Dr Tarkeshwar Singh	Effect of Sulphur Levels, Seed Rates Sowing Dates on Growth, Yield and Quality of Rainfed Linseed (<i>Linum usitatissimum</i> L.)	Agronomy	2005
3	Shatrughan Prasad	Dr Yashwant Singh	Studies on times of Nitrogen Application under Different Weed and Tillage	Agronomy	2005
4	Daya Ram	Prof V K Dubey	Management in Wheat (<i>Triticum aestivum</i> L.) Impact of Front Line demonstrations in wheat production on Rural Communities of Eastern Uttar Pradesh	Extension Education	2005
5	Banjamin Mathew	Dr B P Singh	Effect of Biofertilizers in Association with Different Chemical Fertilizer Levels on Growth, Yield and Quality of African Marigold (<i>Tagetes erecta</i> L.)	Horticulture	2005
6	Vijay Bhan Singh	Prof S P Singh	Genetics of Resistance to Leaf Curl Virus and Some Yield Components in Okra (<i>Abelmoschus esculentus</i> (L.)Moench)	Horticulture	2005
7	Vijay Kumar Singh	Dr J N Singh	Effect of Paclobutrazon on Growth, Flowering, Fruiting and Fruit Quality of Mango (<i>Mangifera indica</i> L.)	Horticulture	2005
Faculty of Arts					
1	Ajit Kumar Mishra	Dr Sanjai Kumar	Existentialist Angst in the Fiction of Richard Wright and James Baldwin	English	2003
2	Kashi Pathak	Dr Sanjai Kumar	The Marginal Man in the Novels of Saul Bellow	English	2005
3	Ms Vibha Singh	Dr(Ms) Indira Bishnoi	Assessment of Women's Development Programmes in Chiraigaon Block of Varanasi District	Home Science	2005
4	Unuwaturabubule Mahinda	Prof P Dubey	A Study on Ancient Monastic Education in Sri Lanka (From 3rd Century BC to 9th Century A.D.)	Pali & Buddhist Studies	2005
5	Anand Kumar Upadhyay	Prof U C Dubey	ईश्वर की अवधारणा: टैगोर एवं गांधी के विशेष सन्दर्भ में	Philosophy & Rel.	2003
6	Ms Savita Mishra	Dr M R Mehta	सांख्य की 'प्रकृति' एवं अद्वैत की 'माया': एक तुलनात्मक अध्ययन	Philosophy & Rel.	2005
7	Dharm Jung	Dr M R Mehta	भारतीय दर्शन में परिस्थितिकी विचार: एक दार्शनिक अध्ययन	Philosophy & Rel.	2005
8	Ms Smita Telang	Dr Mukul Raj Mehta	चार्वाक एवं पाश्चात्य सुखवाद का तुलनात्मक अध्ययन	Philosophy & Rel.	2005
9	Tomy Augustine	Dr M K Agrawal	Yoga Tantra: Theory and Praxis in the Light of the Hevajra Tantra	Philosophy & Rel.	2005
10	Shashishekhar	Prof J S L Tripathi	कादम्बरी के स्त्रीपात्र: एक समीक्षात्मक अध्ययन	Sanskrit	2004
11	Ms Reshma Khatoon	Dr Rifat Jamal	Zakhira - E- Urdu Kala Bhavan, BHU	Urdu	2005
Faculty of Ayurveda					
1	Ashok Kumar Singh	Prof V B Pandey	Phytochemical Investigation of Medicinal Plants	Medicinal Chemistry	2004
2	Ravi Shankar Pandey	Dr Y B Tripathi	Biochemical Study of Macrophage Function in Terms of Atherosclerosis with Reference to Dietary Components and Medicinal Plants	Medicinal Chemistry	2004
3	Ms Sridurga Chinta	Prof C B Jha	Comparative Study of Makshika Bhasma and the Bhasma Prepared with the Combination of Tamra & Loha	Rasa Shastra	2005

Sl No	Name of the Candidate	Name of Supervisor	Topic of Research	Subject	Year of Award
Faculty of Law					
1	Vinod Shankar Mishra	Prof G P Verma	Environmental Justice in India: An appraisal of Role of the Supreme Court with speical Reference to Water Pollution	Law	2004
Faculty of SVDV					
1	Surendra Pandey	Dr Shri Nivas Tiwari	पराशरोक्त दशाओं की समीक्षा	Jyothish	2004
2	Pramesh Kumar Mishra	Prof R C Panda	बालव्युत्पत्तिमज्जयाः सम्पादनं समीक्षात्मकमध्ययनञ्च	Vyakaran	2003
Faculty of Science					
1	Arun Kumar Gupta	Prof Avadh Ram	Effect of Nonlinear Parameters in Seismics and Analysis of Seismological Data	Geophysics	2004
2	Paresh Nath Singha Roy	Pro Avadh Ram	Application of Fractals and Chaotic Dynamics in Seismology	Geophysics	2004
3	Gopal Krishan Ghosh	Prof C L Singh	Shallow Crustal Study of Transition Zone of Narmada-Son Lineament using Gravity and Magnetic Methods	Geophysics	2004
4	Pramod Kumar Mishra	Prof Yashwant Singh	Statistical Theory of Polymers in Restricted Geometries	Physics	2004
5	Navin Singh	Dr Sanjay Kumar(Co-sup)	Statistical Theory of Unzipping of DNA	Physics	2004
6	Ms Kusum Yadav	Prof Yashwant Singh	Analysis of Genetic Divergence in Pea (Pisum sativum L.) using Quantitative traits and RAPD Markers	School of Biotechnology	2005
7	Shankar Sharam Sharma	Prof B D Singh	A Study on some Mathematical Models for Birth Intervals	Statistics	2004
Faculty of Social Sciences					
1	Pradeep Kumar Pathak	Prof R C Yadav	हिन्दू धर्म एवं संस्कृति का इस्लाम पर प्रभाव	History	2002
2	Ms Sunita Kumari	Sri Rakesh Pandey	Revolt of 1857 in India	History	2003
3	Amit Kumar Singh	Dr A S Singh	भारत पाकिस्तान सम्बन्ध में संघर्ष निवारण के प्रयासः शिमला समझौते से आज तक	Political Science	2003
4	Ms Priyanka Pandey	Dr P Upadhyay	The Relationship between Parenting Style and Moral Reasoning Among High School and Under Graduate Students	Psychology	2005
5	Ms Alpana Prasad	Prof (Ms) Meenakshi	बौद्ध भिक्षुओं का एक समाजशास्त्रीय अध्ययन(बौद्धगया, कुशीनगर, सारनाथ, राजगीर एवं नालन्दा पर आधारित)	Sociology	2004
6	Ms Sunita Pandey	Prof P N Pandey	Working Women: Role Performance and Family Adjustment	Sociology	2005
Faculty of Visual Arts					
1	Ms Vandana Kapila	Prof Vishnu Gopal	Planning and Marketing and Advertising	Applied Arts	2001
2	Chakradhar Behera	Sri Vijay Kumar	The Clay Image and Painting Makers Makers of Cuttack, Orissa	Painting	2002
06.02.2006					
Faculty of Agriculture					
1	Rabiratna Dash	Sri S P K Singh	Effect of Biofertilizer, Micronutrient and Fertility Levels on Growth and Yield of French Bean (Phaseolus vulgaris L.)	Agronomy	2005
2	Kamaluddin	Prof O N Singh	Variation and Genetics of Grain Filling Duration and Associated Traits in Wheat (Triticum aestivumL.em.Thell)	Genetics & Plant Breed.	2005
3	Kuldeep Tyagi	Prof R M Singh	Molecular Tagging of Genes Controlling Resistance to Sport Blotch Caused by Cochliobolus sativus in Barley	Genetics & Plant Breed.	2005
4	Hridaya Narain Yadav	Dr A K Joshi(Co-sup)	Genetics of Yield and Certain Quality Attributes in Rice (Oryza sativa L.)	Genetics & Plant Breed	2005
5	Rohit Shukla	Dr R Nandan	Studies on Harvest Maturity Standards in Relation to Storage of Grapefruit (Citrus paradisi Macf.)	Horticulture	2005
6	Samir Kumar Dixit	Dr A K Josh(Co-sup)	Studies on Different Stionic Combination on the Bud-Graft-Cuttage in Rose (Rose spp.)	Horticulture	2005

Sl No	Name of the Candidate	Name of Supervisor	Topic of Research	Subject	Year of Award
7	Devendra Mohan Singh	Prof B P Singh	Physiological and Biochemical Studies on Salt Tolerance in Aonla (<i>Emblca Officinalis Gaertn.</i>)	Horticulture	2005
8	Shaik Ameer Basha	Prof U P Singh	Studies on Induced Resistance in Chickpea (<i>Cicer arietinum L.</i>) against <i>Sclerotinia sclerotiorum</i> (Lib.) de Bary	Mycology & Plant Path.	2005
9	Vinod Kumar	Dr V B Chauhan	Studies on Variability in Fusarial Wilt Pathogen of Pigeonpea and Management of the Disease	Mycology & Plant Path.	2005
Faculty of Arts					
1	Vinod Kumar Yadav	Dr A L Yadav	नालन्दा के पुरावशेषों का अध्ययन	AIHC & Arch.	2004
2	Ms Shukla Bhattacharya	Prof S R Jalote	The Plays of Edward Albee: A Study in Neurotic Anxiety	English	2004
3	Ambuj Kumar Pandey	Prof Srinivas Pandey	राजभाषा (हिन्दी) पत्रकारिता और उसकी प्रमुख उपलब्धियाँ	Hindi	2005
4	Vivek Chand Dubey	Dr Kailash Narayan Tiwari	अयोध्यासिंह उपाध्याय 'हरिऔध' और उनका रचना संसार	Hindi	2005
5	Pharamaha Samrit Piasinuy	Dr R B Misra	Linguistic Borrowing in Thai	Linguistics	2004
6	Pradeep Kumar	Prof Nand Lal	A study of unbounded composition and Multiplication Transformation in I ²	Mathematics	2002
7	Awanish Chand Dubey	Dr Umesh Chandra Dubey	आचार्य शंकर एवं श्री अरविन्द के दर्शन में चेतना का स्वरूप	Phil. & Religion	2004
8	Anil Kumar Sonker	Dr M R Mehta	'आवश्यकसूत्र' में आचार - मीमांसा	Phil. & Religion	2005
9	Sarwan Kumar Yadav	Prof D K Dureha	Assessment of Physical, Physiological and Anthropometric Variables as Factors of Soccer Performance	Physical Education	2005
10	Md Rafique Alam	Prof SHA Naqavi	Taqseem - E - Hind aur Urdu Afsana	Urdu	2005
Faculty of Ayurveda					
1	Ravi Pandey	Dr V P Singh	Chemical Investigation of Indian Medicinal Plants	Medicinal Chem.	2004
2	Ms A Sajeli Begum	Dr Mahendra Sahai	Chemical Investigation of Solanaceous Plant	Medicinal Chem.	2005
Faculty of Commerce					
1	Rajesh Kumar Singh	Dr Raj Kumar	The Uttar Pradesh Stock Exchange Association Ltd : An Evaluation of its workings	Commerce	2002
Faculty of Education					
1	Ram Narayan Mishra	Dr S B Bhattacharya	माध्यमिक स्तरीय शिक्षक - प्रशिक्षण संस्थानों की मान्यता के लिए एन.सी.टी.ई. के दिशानिर्देशों का एक मूल्यांकन	Education	2004
2	Gajendra Nath Sinha	Under the supervision of	Development of Secondary Education in UP in Post Independence Era (A Historical Perspective)	Education	2005
Faculty of Engg. & Technology					
1	Nawal Kishore	Prof R Nath	Planning of Tandem Dragline Operations in Opencast Mines	Mining Engg.	2004
2	Amreesh Chandra	Prof Dhananjai Pandey	Studies on Structures and Phase Transitions in Lead Calcium Titanate Ceramics	School of Material Science & Technology	2004
3	Ms Monika Prakash	Dr R M Banik	Studies on Bacterial Protease Production in Aqueous Two-Phase System	Biochemical Engg.	2005
4	Shiv Kumar Bhagat	Dr J P Tiwari Prof T Srinivasan (Co-Syup.)	Analysis of High Order Systems and Controller Design via Reduced Order Modelling	Electrical Engg.	2005
5	Rajesh Kumar Lal	Prof P Chakrabarti	Modeling and Simulation of MID Infrared Photodetectors	Electronics Engg.	2005
6	Rukmini Raman Das	Dr R Dwivedi Prof K K Shukla (Co-sup)	Neuro - Fuzzy Classifiers for Identification of Gases/Odours	Electronics Engg.	2005
Faculty of Performing Arts					
1	Ms Sonali Bisoi nee Sonali De	Dr Vanmala Parvatkar	उत्तर भारतीय संगीत एवं रवीन्द्रसंगीत का तुलनात्मक अध्ययन तथा रवीन्द्रसंगीत की विशेषताएं	Voal Music	2005
Faculty of Science					
1	Vinod Kumar	Dr R N Thakur	Induced Resistance and Biological Control of Charcoal Rot of Chickpea	Botany	2004
2	Om Kishor Singh	Dr B K Roy	Cytogenetical and Physiological Study of some Palm Species (<i>Arecaceae</i>)	Botany	2005

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3	Ms Pratibha Srivastava	Dr S N Tripathi	Physiological and Biochemical Studies on Growth and Survival of some Antarctic Cynobacteria	Botany	2005
4	Ms Richa Nag	Prof B R Choudhary	Cytogenetic Monitoring of Pesticide Contamination and Risk Assessment	Botany	2005
5	Avnish Kumar	Prof S K Basu	Studying the Effectiveness of Genetic Algorithms in Solving Certain Classes of Problems	Computer Science	2005
6	Kamlesh Kumar Rai	Prof Nand Lal	A Study of Non-Subjective Composition Operators on l^2 and Induced Derivations on Banach Algebra B (l^2)	Mathematics	2005
7	Ms Sonali Sengupta	Prof S C Lakhota	Studies on a novel gene interacting with $hsc^{(s)}$ gene and their roles as a modifiers in polyglutamin induced neurodegeneration in Drosophila melanogaster	Zoology	2005
8	Satish Sasikumar	Dr J K Roy	Studies on role of RabII in Drosophila development	Zoology	2005

Faculty of Social Sciences

1	Ms Anubhuti Shukla	Prof (Mrs) Kiran Barman	Import Liberalisation and Export Performance of Indian Economy	Economics	2004
2	Ram Pravesh Singh	Dr K K Mishra	हिन्दी साहित्य पर आधारित राष्ट्रवाद (बनारस के विशेष सन्दर्भ में)	Political Sc.	2002
3	Ms Archana Patel Singh	Prof (Ms) A S Upadhyay	भारत एवं बांग्लादेश सम्बन्ध	Political Sc.	2005

Faculty of Visual Arts

1	Ms Poonam Kumari	Sri Hira Lal Prajapati	Analyzing Consumer Markets and Buying Behaviour from 1900 to 2000	Applied Arts	2005
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01.03.2006**Faculty of Agriculture**

1	Ram Prakash Sahu	Prof K N Pandey	Study of KVK of District UNNAO(UP) with special Reference to Dissemination of Wheat Technology	Extension Educ.	2005
2	Onkar Sharma	Dr J P Shahi	Comparison of Testers, Heterosis and Combining Ability Analysis in Maize (Zea mays L.)	Genetics & Plant	2005
3	Avinash Kumar Singh	Prof M M Syamal	Studies on the Effect of Various Sources and Levels of Phosphorus on Leaf Bronzing in Guava (Psidium guajava L.) cv. Allahabad Safeda	Horticulture	2005

Faculty of Arts

1	Ms Sagarika Chattopadhyaya	Dr(Ms) Aloka Chatterjee	Sharat Sahitye Hasyarasa	Bengali	2005
2	Phramaha Somparn Seevilas	Prof H S Shukla	A Critical Study of the Method of Instructions by the Buddha as Depicted in Sutta and Vinaya Pitaka	Pali & Buddhist Studies	2005
3	Phramaha Pramuan Bhlalom	Prof P Dube	Relevance of Four Noble Truths in the Present World	Pali & Buddhist Studies	2005
4	Abhimanyu Singh	Dr Ram Bali Singh	Effect of Plyometric Training on Jumping Ability of Volleyball Players	Physical Education	2005
5	Praveen Kumar Bharti	Dr Sukadev Bhoi	प्रमुख उपनिषदों में ब्रह्मतत्व का विवेचन	Sanskrit	2005
6	Sudhansu Kumar Sarangi	Prof S L Jain	भारतीयदर्शने गुणविचारः	Sanskrit	2005

Faculty of Education

1	Ashok Kumar	Dr Deepa Rani Saxena	A Study of Religious Value and Communal Attitude of the Students and Teachers of Varanasi City	Education	2004
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Faculty of Engg. & Technology

1	Ms Shubhra Verma	Prof S K Kak	Conjugate Pulse Position Modulation (Analysis, Design and Performance Evaluation)	Electronics Engg	2005
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Faculty of Science

1	Bahadur Ram	Dr A S K Murth	Some studies on Magnetic Field over Chhattisgarh Basin & Adjoining Region	Geophysics	2004
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2	Ms Anjana Tiwari	Dr P L Pakrasi	Study of Implantation in Mammals Preimplantation Development in an Indian Tropical Bat Scotophilus heathi	Zoology	2005
3	Ms Kiran Singh	Prof Rajiv Raman	Genetic Analysis of Male Infertility in Human	Zoology	2005
Faculty of Social Sciences					
1	Jitendra Yadava	Prof(Ms) N Q Pankaj	प्राचीन भारत में व्यापार (300 ए.डी. - 600 ए.डी.)	History	2005
2	Ms Rubi Singh	Dr R P Singh	स्वामी विवेकानंद के विचारों का एक विश्लेषणात्मक अध्ययन	Political Science	2005
3	Ms Upasana Pandey	Prof(Ms) C K Padia	उत्तर - आधुनिकतावाद और गाँधी	Political Science	2005
4	Ms Anita Singh	Prof J S Mishra	Economic Condition of Women in Ancient India (c.1500 B.C. to 1200 A.D.)	History	2004
5	Hare Ram Singh	Prof(Mrs) C Padia	मुस्लिम धार्मिक कानून और मुस्लिम महिला विकास: भारत के सन्दर्भ में	Political Science	2005
11.05.2006					
Faculty of Agriculture					
1	Uttam Kumar	Dr A K Joshi Dr Ramesh Chandra(Co-supervisor)	Molecular Tagging of Resistance Genes to Sport Blotch Pathogen Bipolars Sorokiniana of Wheat	Genetics & Plant Breeding	2005
2	Satish Kumar Singh	Dr M N Singh Prof U P Singh(Co-sup.)	Genetical Analysis of Yield Traits and Resistance to MYMV and CLS in Mungbean [Vigna radiata (L.)] and comparison of Amphidiploids with Diploids	Genetics & Plant	2005
3	Amar Bahadur	Prof U P Singh	Immunization of Pea Plants Against Erysiphe pisi Syd.	Mycology and Plant Pathology	2004
Faculty of Arts					
1	Mahesh Kumar Singh	Prof P N Singh	प्रतीहारों के सामन्त राजाओं एवं राजवंशों का अध्ययन	AIHC & Arch.	2005
2	Ms Rashmi Devi	Prof Nisar Ahmad	प्रभाचन्द्र आराधना कथाकोष का सांस्कृतिक अध्ययन	AIHC & Arch.	2005
3	Ms Seema Singh	Late Dr A L Yadav	An Archaeological Study of Agriculture	AIHC & Arch.	2006
4	Ms Krishna Chatterjee	Dr V Tripathi	A Study of Dramatic Modes in Soyinka and Karnad	English	2002
5	Binay Mishra	Prof A K Rai	स्वतंत्रता : एक तुलनात्मक अध्ययन मिल मार्क्स एवं सार्त्र के विशेष सन्दर्भ में	Philosophy & Rel.	2005
6	Saen Chadaram	Prof S V Kumari	Recent Trends in Buddhism in India and Thailand	Philosophy & Rel.	2005
7	Raghav Kumar Jha	Prof S L Jain	जानकीहरणमहाकाव्ये महर्षिवाल्मीके: प्रभाव: एकं समीक्षात्मकमध्ययनम्	Sanskrit	2005
8	Ms Hema	Dr P D Singh	महाभारतकालीन समाज - एम परिशीलन	Sanskrit	2005
Faculty of Engg. & Technology					
1	Santosh Kumar	Prof D S Sarma Dr Sanak Mishra(Co-Sup)	Strain Hardening Behaviour of Ferritic Stainless steels at Ambient and Elevated Temperature	Metallurgical Engineering	2004
2	Paresh Manna	Prof K K Narang	Synthesis and Evaluation of Biological Activity of Sulphur and Nitrogen Containing Heterocyclic Compounds	Applied Chem.	2005
3	Veerendra Kumar Chandola	Prof S K Sharma	Improving the Performance of Centrifugal Irrigation Pumpsets	Mechanical Engg.	2005
Faculty of Management Studies					
1	Jagdish Badola	Dr A K Agrawal	Marketing Strategies in the District Dairy Cooperatives of Uttaranchal A Case Study	Management Studies	2005
Faculty of Performing Arts					
1	Ms Madhumita Bhattacharya	Dr Ritwik Sanyal	उत्तर प्रदेश में शास्त्रीय एवम उपशास्त्रीय संगीत के विकास का अध्ययन (18वीं शताब्दी से 20वीं शताब्दी)	Vocal Music	2005
Faculty of Science					
1	Ms Pallavi Sharma	Prof R S Dubey	Antioxidant Mechanism and Role of Osmolytes in Rice Plants Under Stressful Conditions	Biochemistry	2005
2	K Ravi Charan Reddy	Prof A M Kayastha	Studies on Plant Urease and its Applications	Biotechnology	2005
3	Rajesh Kumar Sharma	Prof Ajit Sodhi	Effect of Secretory Proteins of Y Pestis on muring peritoneal macrophages in Vitro	Biotechnology	2005
4	Prabhat Nath Jha	Dr Ashok Kumar	Physiological and Molecular Characterization of Diazotrophic Bacteria Associated with Rice Plants	Biotechnology	2005

IT-BHU SIGNS PACT FOR R & D COLLABORATION WITH MOSER BAER INDIA LIMITED

Moser Baer India has joined hands with the Institute of Technology, Banaras Hindu University (BHU) to work jointly in the frontier areas of fundamental and applied R&D for optical storage media and Photovoltaic industry. Towards this end, the two organizations signed a memorandum of understanding for a period of five years to jointly work in the area of organic dye technology and the inorganic thin-film area.

Prof SN Upadhyay, UP Ratna and Annapurna Awardee, and Prof Dhananjai Pandey, ex Director Atomic Energy Facilities, BARC signed the MoU on behalf of the institute, Mr. Deepak Puri, Chairman and Managing, Moser Baer, signed the MoU on behalf of the company.

Moser Baer Chairman and Managing Director Mr Deepak Puri welcomed the agreement and underscored the critical role played by fundamental research in making any organization in the technology space self-sustaining and a long-term force. "Moser Baer has always focused on both fundamental and applied research and development, and this is one of the corner stones that have enabled

the company to develop new and innovative products-both in organic dye technology and the inorganic thin-film based optical data storage space," he added. "While we invest 2% of our revenues on R&D, it is agreements like this one with organizations like IT BHU that really hold the potential to explore the next frontiers of technology."

Moser Baer has taken a lead to work jointly with the academia and this is the second tie up for the company. In early 2005, the company had signed a MoU with the prestigious IIT Delhi to work jointly in the area of thin film sputtering technology. According to Mr. Puri, "It gives me immense pleasure to see the academia-industry relationship like this blooming and I firmly believe that it is a win-win situation for the academia, industry and India as a whole."

"This agreement marks a step-a leading corporate and a top institute have come together to work jointly to develop technologies that the country would often seek support for from outside the country." Prof Pandey said.

Moser Baer's Mr Giriraj Nyati said there was enormous scope for the development of new technologies to enhance the current data storage capacity of optical formats-from 50 Gb to 200 Gb-using both organic and inorganic materials as the recording media. Apart from new technologies, the MoU will also look at developing low cost indigenous substitutes for various components in the manufacture of optical and photovoltaic material.

He emphasized that the collaboration with IT BHU was an attempt to the leverage of the synergistic capabilities on both sides. Moser Baer, with a large R&D team of over 100 people, has developed in-house expertise in various areas of the optical media and will work with IT BHU and its vast pool of knowledge in the materials sciences area.

IT BHU was represented by Professor Panjab Singh (Vice-Chancellor, BHU), Professor S Lele (Rector, BHU), Professor Dhananjai Pandey (SMST, IT BHU), and Professor SN Upadhyay (Director, IT BHU) apart from scientists from the Ministry of Information Technology.





ANNIE BESANT MEMORIAL LECTURE



L to R : Prof Indra Nath Chaudhuri, Prof Madhoolika Agrawal, Vice-Chancellor Prof Panjab Singh

Prof Indra Nath Chaudhuri, Academic Director of the Indira Gandhi National Centre for Arts, New Delhi and eminent scholar while talking about Hind Swaraj, a book written by Mahatma Gandhi said that the debate of modernisation in India is still going on in Europe, the discussion is on post-modernism and local realities. Gandhi was of the view that while accepting the tradition and modernisation, a new culture created which would be modern in reality, he added while expressing his view in Annie Besant Memorial Lecture organised by Banaras Hindu University on 22nd March.

The key model of continuity is found in Hind Swaraj. Modernisation project in India has failed because it was based on eccentric views of man, he said and added that in India, here is a fine balance between 'Nutan' and 'Puratan'. The basic ethos of India is its plurality and there is no problem in comparing tradition with modernity, he said.

He said that especially globalisation with its concurrent culture denounce plurality and creates monolithic structure. The first Prime Minister Pt Jawaharlal Nehru talked about modernity and developed a modern scientific model of development for India but it was based on western model and completely sidelined tradition. True modernisation is freedom of mind and not slavery, he added.

Gandhi had never said to reject tradition

and modernisation but he favoured of accepting both and creating a new thing, said Prof Chaudhuri. He said that Gandhi was not against receiving of western modernity but he emphasised on creating a new culture by interpreting two cultures and it would be real modernity. Gandhiji had always favoured of creating its own culture and said that there was no need to look towards western modernity and that was the reason why he had always talked about 'swaraj' to

project and continue Indian tradition.

Gandhiji never advocated conflict between western and non-western and favoured acceptance of both, he said. The lecture was presided over by Vice-Chancellor Prof Panjab Singh. The vote of thanks was proposed by Convener of Memorial Lectures & Public Relations Officer, Dr Vishwanath Pandey, Prof Madhoolika Agrawal (Botany) welcomed & conducted it.



L to R : Galaxies in audience : Prof SK Srivastava (Rtd) Prof SR Singh (Director, IAS), Prof Anand Mohan (EC Member), Rector Prof S Lele, Dr Satyadeo Singh, Prof A K Banerjee (EC Members) and Prof Sushila Singh (Principal, MMV)