

CUPB Newsletter

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ਪੰਜਾਬ ਕੇਂਦਰੀ ਯੂਨੀਵਰਸਿਟੀ, ਬਠਿੰਡਾ
ਪੰਜਾਬ ਕੇਂਦਰੀ ਵਿਸ਼ਵਵਿਦਿਆਲਯ, ਬਠਿੰਡਾ
Central University of Punjab, Bathinda

From the Vice-Chancellor's Desk

At the very embryonic stage of its development, the Central University of Punjab has attained a competent position among the educational institutes of India, and I am grateful that I have been given the opportunity to forge the incessant progress of this zealous institute. The vitality and tenacity with which students, faculty members, and staff members work painstakingly, give more impetus to the university to excel in the fields of research and academics. The university has been supporting extracurricular activities, and what pleases me the most is the organisation and participation of students and faculty members in the innovative and reformist events, such as International Yoga Day, Drug Abuse Day, Labour Day, Women's Day, Biodiversity Day, Legal Literacy Camp, and Human Rights Course, that are meant to bring a positive change in and around the university. Being a qualitative research oriented university, it aims to provide a conducive atmosphere to its researchers for talent identification and skill development that are meant to attain the hitherto unattained heights of scholastic excellence. I wish, together we make this university one of the leading educational institutes in the world.



Certificate Course in Human Rights and Duties

The university initiated a Certificate Course in Human Rights and Duties under UGC Scheme: Human Rights Education from February-May, 2015. The objective of the course is to equip the participants not only with subjective knowledge through guest lectures but also to make them aware about their rights and duties in order to make them morally, ethically, economically, and intellectually powerful through various extension activities. The course received a good response both within and outside the university with 70 applications against 30 seats. The participants of the first batch of the course belonged to different age groups ranging from 25 years to 60 years, equal ratio of genders, education level, language, and different cultures. Following activities were organised during the course:

- Lecture on *Human Rights in Globalised World* by Prof. P. S. Ramana, Prof. & Head, Dept. of PG Studies, PU Regional Centre, Bathinda, and lecture on the *Concept of HR: Historical Development* by Dr. Puneet Pathak, Faculty, CEL, Central University of Punjab, Bathinda on February 28, 2015.
- Lecture on *Fundamental Rights & Duties under Indian Constitution* by Dr. H.R. Arora, Faculty, CEL, Central University of Punjab, Bathinda, and lecture on the *Nature & Classification of Human Rights* by Dr. Puneet Pathak, Faculty, CEL, Central University of Punjab, Bathinda on March 7, 2015.
- Lecture on *Human Rights: International Norms-I* by Dr. Sukhwinder Kaur Virk, Faculty, Rajeev Gandhi National University of Law, Patiala, and lecture on *Human Rights: International Norms-II* by Dr. Puneet Pathak, Faculty, CEL, Central University of Punjab, Bathinda on March 14, 2015.
- Lecture on *Women Empowerment* by Justice Daya Chaudhary, Judge, Punjab and Haryana High Court, Chandigarh, and Mr. Tejwinder Singh, District & Session Judge, Bathinda on March 20, 2015. Justice Chaudhary giving illustrations from her own life reflected upon the core issues like female foeticide, dowry, and domestic violence. She concluded her talk by encouraging women to become economically independent and paving their move ahead with self-reliance.
- Lecture on *Human Rights and Fundamental Rights* and lecture on *Excellence in Life* by Dr. Puneet Pathak, Faculty, CEL, Central University of Punjab, Bathinda on March 21, 2015.
- Lecture on *Open and Transparent Governance and Right to Information* by Dr. Nimmi, Faculty, Dept. of Law, Punjabi University Regional Centre, Bathinda, and lecture on *Human Rights: International Enforcement Mechanism* by Dr. Puneet Pathak, Faculty, CEL, Central University of Punjab, Bathinda on March 28, 2015.
- Lecture on *Combating Corruption and Human Rights* by Prof. Rajbir Singh Dalal, Faculty, Dept. of Public Administration, Ch. Devi Lal University, Sirsa (Haryana), and lecture on the *Concept of Social Justice in Indian Literature* by Dr. Rajinder Kumar Sen, Faculty, CPL, Central University of Punjab, Bathinda on April 4, 2015.



Justice Daya Chaudhary during her lecture

- Lecture on *Speedy Justice through Mediation and Conciliation* by Mrs. Seema Sharma, Mediator, ADR, District Court, Bathinda, lecture on *Time Management of Life* by Dr. Puneet Pathak, Faculty, CEL, Central University of Punjab, Bathinda, and lecture on *Media Advocacy: Role of Electronic Media* by Mr. Rajeev Kumar Arora, Station Director (O), All India Radio, FM, Bathinda on April 11, 2015.
- Lecture on *Media Advocacy: Role of Print Media in Promoting Human Rights* by Mr. Kamal Singh Brar, Hindustan Times, Senior Reporter, President Press Club, Bathinda, and lecture on *Human Rights and Criminal Justice System in India* by Dr. Puneet Pathak, Faculty, CEL, Central University of Punjab, Bathinda on April 18, 2015.
- Lecture on *Environment Degradation in India and Environmental Sustainability* by Dr. Kiran K. Singh, Faculty, SCA, Central University of Punjab, Bathinda, lecture on *Evolution and Humanity* by Dr. Felix Bast, Faculty, BSS, Central University of Punjab, Bathinda, and lecture on *Environmental Issues and Rights of Marginalised: Some Insights from Literature* by Dr. Amandeep Brar, Faculty, CPL, Central University of Punjab, Bathinda on May 2, 2015.
- Lecture on the *Concept of Dharma in Ancient India and Human Rights Vs Human Duties* by Prof. Anirudh Prasad, RGNUL, Patiala, and lecture on *Economic Dimensions of Human Rights* by Prof. Balwinder Tiwana, Director, ASC, Punjabi University Patiala on May 16, 2015.
- Lecture on *Human Rights of Refugee & IDPS, Compliance to International Human Rights Treaties: An Indian Perspective*, and *Human Rights and NGO* by Prof. Manoj Kumar Sinha, Director, Indian Law Institute, New Delhi, and lecture on *National Human Rights Commission* by Dr. Puneet Pathak, Faculty, CEL, Central University of Punjab, Bathinda on May 23, 2015.
- A Human Rights Quiz was conducted during the course on May 2, 2015.
- A Visit to Old Age Home and Children's Home was organised on May 9, 2015.
- Human Rights Awareness programme was organised at Gurthadi village, Bathinda on May 17, 2015.



Awareness programme at Gurthadi village

Women's Day Celebrations

To commemorate the International Women's Day, Centre for Education organised a lecture on *Education and Gender Sensitivity* by Prof. Rajesh Gill, Department of Sociology, Panjab University, Chandigarh, on March 5, 2015. A function was also organised by the Centre for South and Central Asian Studies to honour and remember the contribution of women associated with the university. IG, Vigilance, Dr. Jatinder Kumar Jain was the chief guest. Vice-Chancellor, Prof. R. K. Kohli and the First Lady, Dr. Kumkum Kohli, were also present on the occasion. According to Prof. Kohli, women are the real stars who work tirelessly to shape



Female faculty and students performing on Women's Day

their work places, as well as, their homes. Dr. Jatinder Kumar Jain said that one cannot imagine a world without women. Being intelligent and brave, they have proven themselves in every corner of the world. Dr. Jain was felicitated by the Vice-Chancellor, and the women associated with the university were also felicitated. Prof. R. G. Saini, Prof. R. C. Sharma, Prof. A. K. Jain, Dr. Anjana Munshi, Prof. D. D. Singh, faculty members, and students were also present on the occasion.

Seminar on Intellectual Property Rights

To encourage students and people for registration and patent processes of their exclusive innovations, a special seminar on Intellectual Property Rights (IPR), *IP & Learning of True Research Culture: Some Basics*, was organised by IPR Cell of the Central University of Punjab in collaboration with Punjab State Council for Science and Technology (PSCST) on March 27, 2015. Dr. D. P. Bhatt, Senior Principal Scientist and Head, IPR Group, CSIR-National Physical Laboratory, New Delhi, was the key speaker. He encouraged participants to get patents done and informed them about patent processes in India and its benefits as a sole owner. The welcome note was given by Dr. Preeti Khetarpal, and Dr. Sunil Mittal introduced the guest speaker and highlighted his achievements. Dr. Jai Prakash, Nodal officer, IPR cell of CUPB, gave an introduction and overview of the IPR cell and discussed the main objectives and activities of the same.

Earth Day Celebrations



Prof. V. K. Jain during his lecture on Earth Day CUPB in collaboration with Punjab Pollution Control Board, Bathinda, celebrated Earth Day on April 22, 2015 by planting trees on the university campus followed by a pledge to save environment. Distinguished personalities such as Sh. Manpreet Singh, IAS, Chairman, Punjab Pollution Control Board; Prof. V. K. Jain, Vice-Chancellor, Doon University; and, Prof. S.S. Dhillon, Emeritus Prof., Punjabi University, Patiala visited the campus. The organisers of the event, Dr. Sunil Mittal and Dr. Deepak Chauhan, apprised that the celebration of the programme will take effect by plantation drive and placing the wild birds' nest-boxes on the university campus trees.

Legal Literacy Camp

CUPB organised a Legal Literacy Camp in collaboration with District Legal Services Authority, Bathinda, on April 22, 2015. The camp was organised as a part of National Legal Literacy Mission with an objective of sensitising various sections of the society. The officials of district legal services authority including Mrs. Amita Singh, Secretary, District Legal Services Authority, Advocate Rohit Khattar, Advocate Kapil Bansal, Sh. Ramnik Walia, and Sh. D.K. Garg were present and interacted with the students of the university. Mrs. Singh apprised the students with the idea of free legal aid and working of legal aid clinic. Advocate Khattar highlighted the category of persons who are entitled for free legal aid under Section 12 of the Legal Services Authority Act, 1987. Advocate Kapil Bansal spoke on the functioning and importance of Lok Adalats. The officials of the university, Dr. Sushil Gupta, OSD, Dr. H. R. Arora, Dr. Deepak Chauhan, and Dr. Tarun Arora were the dignitaries present on the occasion.



Dr Tarun Arora during his lecture

Grammarly Subscription

The university library has subscribed the “Grammarly” for proofreading and plagiarism detection from April 15, 2015 to April 16, 2016. University library organised the training sessions on Grammarly software for the awareness of library users. The Grammarly training was provided by Mr. R. P. Karthik, from Bengaluru, on May 1, 2015.

Labour Day Commemoration

The CUPB celebrated World Labour Day. The event began with a salutation to the labourers and they were apprised with the importance of this day by Dr. Tarun Arora and Dr. Deepak Kumar from School of Legal Studies and Governance. Appreciating the hard work, sincerity, and commitment of the workers, Prof. R.K. Kohli shared that one can create his/her identity through labour. Even a small job can be done in a great way. Vote of thanks was proposed by Dr. H.R. Arora. The programme concluded with offering tea and refreshment first to the workers by the authorities.



The Vice-Chancellor addressing the audience on Labour Day



The workers relishing the refreshments and posing with the Vice-Chancellor

Training Programme on “Web of Science” and “SCOPUS”

The university has subscribed the “Web of Science” and “SCOPUS” abstract and citation databases for the year 2015. For creating awareness among library users, the university library organised training sessions on both databases. The 'Web of Science Training' was provided by Mr. Basha Kodidela, from Bengaluru, and 'SCOPUS Training' was provided by Mr. Vishav Sharma, from Gurgaon on May 7, 2015.

Awareness Programme on International Day for Biodiversity

An awareness programme on International Day for Biological Diversity on the theme "*Biodiversity for Sustainable Development*" was organised on May 22, 2015 in collaboration with Punjab Biodiversity Board. The programme was sponsored by National Biodiversity Authority, Govt. of India. The awareness programme involved expert lectures by eminent speakers, a documentary, and an extra-curricular programme by the students. Prof. R.K. Kohli, Vice-Chancellor, shared his ideas on the efforts and movements at international level to protect bio-diversity. Speaking on the occasion, Prof. Daisy R. Batish, an expert on the subject from Panjab University, Chandigarh, highlighted the role of biodiversity in sustaining life on this earth. She also enumerated on the endangered species notified by International Union for Conservation of Nature. Prof. Jagbir Singh, from Punjabi University, Patiala, continued the momentum and sensitised the participants in an illuminating way by his presentation on plants, animals, and mountains. Prof. Gurmail Singh, Vice-Chancellor, Akal University, emphasised on the need to redefine and revisit the meaning of development in the perspective of environment preservation. The students of CUPB presented a skit on the effects of modernisation on environment, and a mime on the theme, 'Save Trees'. A poem competition and a photography competition were also organised on the occasion. Other dignitaries present on the occasion were Principal S.K. Bhullar, RBDVA School, Principal S. Luthar, St. Paul School, Advocate Darshan Singh Bajaj, NGO co-ordinator Ramnik Walia, Mr. Mandeep Singh, Co-ordinator, MGSIPAP, and the representatives of various NGOs and educational institutions.



The Vice-Chancellor felicitating Prof. Jagbir Singh

Signing of MoU with University of Saskatchewan

Central University of Punjab, Bathinda signed an MoU with the Department of Plant Sciences, University of Saskatchewan, Canada on June 12, 2015. Professor Ravindra N. Chibbar, Chairman, Department of Plant Sciences, signed the MoU to promote cooperation between two organisations in the field of education and research in biotechnology, nutrition, crop quality, plant transformation, and development of cooperative efforts to enhance the academic interchange between CUPB and University of Saskatchewan.

CUPB Celebrates International Yoga Week

Continuing its momentum towards excellence, the Central University of Punjab inaugurated a Yoga Week, from June 15, 2015 to June 21, 2015, to mark the International Yoga Day (21 June). The purpose of this celebration was to give its stakeholders an opportunity of connecting with oneself. Yoga instructors Mr. V. V. Shukla and Ms. Nisha Sharma from Yoga B.Ed. College, Chandigarh, were invited for a week-long stay to guide the participants. Commenting on the modern lifestyle involving cut throat competition, Prof. Kohli, Vice-Chancellor, encouraged the students to be health conscious and build a strong fitness regime. Prof. Ramarao, Dean, Academic Affairs, enlightened the participants saying that yoga helps an individual to ensure working of soul, mind, and body in unison. Besides several faculty members, research students, and staff, the Vice-Chancellor too was trained in yogic exercises during this week in the morning and evening sessions. These sessions culminated into International Yoga Day celebrations.



Students, faculty, and staff practising yoga



The Vice-Chancellor among the participants on the conclusion of Yoga Week

CUPB Observes International Day against Drug Abuse and Illicit Trafficking

The university commemorated International Day against Drug Abuse and Illicit Trafficking on June 26, 2015. The theme apropos it for the year of 2015 is *Let us Develop - Our Lives, Our Communities, Our Identities Without Drugs*. Dr. Tarun Arora introduced the event and there were two documentaries on Illicit Trafficking and Drug Abuse. Prof. R.K. Kohli, Vice-Chancellor, made an appeal to all the participants to treat drug addicts as patients instead of criminals. Emphasising on the role of family aspects, he opined that a multi-pronged strategy is required to be framed and implemented with full vigour involving governments, security agencies, enforcement agencies, implementing mechanism, non-governmental organisations, and educational, religious and other institutions. The programme concluded with a pledge administered by Dr. H.R. Arora, faculty, CEL, and Mr. Kovid Kumar, Research Scholar, SCAS, affirming to stay away from drugs and sensitisation of the stakeholders.



The Vice-Chancellor, faculty, and students during the pledge ceremony

Fund Raising Programme for Nepal Disaster Victims

Nepal was hit by a major earthquake on April 25, 2015 with a magnitude of 7.8 M_w , killing more than 9000 people and injuring more than 23000 people. It was followed by a major aftershock on May 12, 2015 with a magnitude of 7.3 M_w that killed more than 200 people and injured more than 2500 people. It was also the worst natural disaster to strike Nepal since the 1934 Nepal-Bihar earthquake. A fund raising programme for the victims of Nepal Disaster was initiated by the students within the university to help the suffering humanity in this misfortune. The staff (both teaching and non-teaching) and students contributed wholeheartedly for the cause. The sum collected for the purpose amounted to Rs. 38,951 and was sent to the Prime Minister's National Relief Fund.

Special Lectures

1. Centre for Environmental Sciences and Technology organised "J. S. Yadav Memorial Lecture" on March 19, 2015. There was an expert lecture entitled *Energy and Environment: A New Paradigm* by Prof. S. K. Sharma, and signing of MoU with Dayanand National Academy of Environmental Sciences, Chandigarh.
2. There was an extension Lecture on *India's Trade in Services* by Dr. Pralok Gupta, Centre for World Trade Organisation Studies, Indian Institute of Foreign Trade, New Delhi, on April 10, 2015.
3. There was a guest lecture by Prof. Arbind Jha, Dean, School of Education, Mahatma Gandhi Antarrashtriya Hindi Vishwa Vidyalaya, Wardha on "Teaching Methodology" on April 24, 2015.
4. A presentation on *Fulbright Nehru and Fulbright Fellowships* was given by Dr. Gayatri Singhal, Indian Programme Manager, United States-India Educational Foundation, Fulbright Commission in India on April 27, 2015. It was followed by an interactive session.
5. A special lecture on *Social Justice and Dr. B. R. Ambedkar* was held on April 29, 2015.
6. On April 30, 2015, a presentation on *A Common Platform for Metabolite and Protein Profiling in Unbiased Discovery* was given by Dr. Mark Mc Dowall, a senior consultant in Mass Spectrometry from Waters Corporation, USA.
7. An invited talk was delivered by Dr. Mandeep Singh Bakshi on May 8, 2015. Dr. Bakshi is a Lecturer in W. L. University, Waterloo, Canada. He delivered his talk on *Biominalisation of Biomaterials: Biological Applications and Nanotoxicity*.
8. Training and demonstration of ArcGIS software was held on May 14, 2015 and May 15, 2015.
9. Centre for Education organised a lecture on June 10, 2015 by Dr. Jayanti Dutta, Deputy Director, Academic Staff College, Panjab University, Chandigarh. The theme of the lecture was *How We Teach and How We Should Teach*. In this lecture Dr. Dutta discussed the principles and methods of good teaching.



Dr. Mc Dowall during his lecture



Dr. Jayanti during her lecture

New Joinings

1. Dr. Pankaj Khare joined as the Registrar, Central University of Punjab on June 13, 2015. He comes from Indira Gandhi National Open University (IGNOU), New Delhi, where he recently demitted office of Registrar, Student Registration Division, handling admission related administrative work for a student population of above 3.5 million.
2. Dr. Jagdeep Singh joined as the Controller of Examinations, Central University of Punjab on June 5, 2015. He has more than 22 years' experience in teaching and research. His professional career includes more than 10 years of administrative experience viz. Advisor Biotechnology (Pushpa Gujral Science City), Coordinator and Adjunct Faculty (IISER Mohali) and Deputy Director/Additional Director (Department of Higher Education, Punjab).

Academic Achievements

A. Publications

1. Dr. Alpna Saini from Centre for Comparative Literature translated and edited a book titled *Blood Flowers: Selected Poetry of Harbhajan Hundal* published by CreateSpace Publishing, USA, 2015.
2. Dr. J. Nagendra Babu, Dr. Sunil Mittal, and Rabindra Kumar from Centre for Environmental Sciences & Technology published a paper titled “Advances in arsenic biosensor development—A comprehensive review (2015)” in *Biosensors and Bioelectronics* (Vol. 63, 533-545, 2015).
3. Dr. J. Nagendra Babu, Rishikesh Singh, and Rabindra Kumar from Centre for Environmental Sciences & Technology published a paper titled “Multifaceted application of crop residue bio char as a tool for sustainable agriculture: An ecological perspective (2015)” in *Ecological Engineering* (Vol. 77, 324-347, 2015).
4. Dr. Raj Kumar from Centre for Chemical and Pharmaceutical Sciences published an editorial paper titled “Signal Transduction inhibitors as Promising Anticancer Agents” in *BioMed Research International* DOI: <http://dx.doi.org/10.1155/2015/584170>.
5. Dr. Raj Kumar, Mansi Garg, Monika Chauhan, Pankaj Kumar Singh, and Jimi Marin Alex from Centre for Chemical and Pharmaceutical Sciences published a review article titled “Pyrazoloquinazolines: Synthetic strategies and bioactivities” in the *European Journal of Medicinal Chemistry* (Vol. 97, 2015). This review is the first of its kind to congregate the various pyrazoloquinazolines reported until now, and categorises these structurally isomeric classes into eleven different groups based on the fusion pattern of the ring such as [1,5-c], [5,1-b], [4,3-h].
6. Dr. Raj Kumar, Monika Chauhan, Anil Rana, Jimi Marin Alex, Arvind Negi, and Sandeep Singh from Centre for Chemical and Pharmaceutical Sciences published a research paper titled “Design, Microwave-mediated Synthesis and Biological Evaluation of Novel 4-Aryl (alkyl) amino-3-nitroquinoline and 2, 4-Diaryl (dialkyl) amino-3-nitroquinolines as Anticancer Agents” in *Bioorganic Chemistry* (Vol. 58, 2015). In this work (4-Aryl (alkyl) amino-3-nitroquinoline and 2, 4-Diaryl (dialkyl) amino-3-nitroquinolines) were synthesised and evaluated for the first time for anti-proliferative activity against EGFR over expressing human lung (A-549 and H-460) and colon (HCT-116-wild type and HCT-116-p53 null) cancer cell lines.
7. Dr. Shamshir Singh Dhillon from Centre for Education published a research paper titled "Problems of Frustration, Agression, and Low Self-Esteem among Adolescents" in *International Journal of Multidisciplinary Research and Development* (Vol. 2, Issue- III, March 2015.). The paper deals with various causative factors and reasons responsible for the development of Frustration and Low Self Esteem among adolescents and the various management techniques to tackle the problems of Frustration, Aggression and Low Self-Esteem among adolescents.
8. Dr. Shamshir Singh Dhillon from Centre for Education published a research paper titled "Effectiveness of ICT Blended with Traditional Methods for Teaching of Human Rights" in *International Journal of Multidisciplinary Research and Development* (Vol. 2, Issue- III, March 2015). The paper deals with development of ICT facilitated material on human rights for XI class students and to study the effectiveness of ICT facilitated teaching material on the achievement scores of XI class students on the topics of human rights.
9. Dr. Shamshir Singh Dhillon from Centre for Education published a research paper titled "A Study of Work Values in relation to Occupational Self Efficacy and Job Satisfaction of Secondary School Teachers" in *Academicia* (Vol. 5, Issue- V, May 2015). The paper deals with investigating the relationship of work values with job satisfaction and occupational self-efficacy experienced by secondary school teachers.
10. Dr. Vinod Kumar from Centre for Chemical and Pharmaceutical Sciences published a research paper titled “The Discovery of Kappa Opioid Antagonists with Nociceptin/Orphanin FQ Peptide (NOP) Receptor Partial Agonism and Low, or Zero, Efficacy at MU Opioid Receptors” in the *Journal of Medicinal Chemistry* with impact factor-5.6. This paper has led to an interest in developing compounds with a buprenorphine-like pharmacological profile but with lower efficacy at mu opioid receptors. It describes aryl ring analogues of buprenorphine in which the standard C20-methyl group has been moved to the C7 β position.
11. Kavita Dhillon from Centre for Comparative Literature published a paper titled “Female Identity amid Diasporic Fiction: A Comparative Study of Manju Kapur's *The Immigrant* and Chitra Divakaruni's *Queen of Dreams*” in *The Criterion: An International Journal in English* (Vol. 6, Issue-3, June, 2015).

12. Komal Arora, D. R. Batish, H. P. Singh, and Prof. R. K. Kohli published a paper titled “Allelopathic potential of Essential oil of wild marigold (*Tagetes minuta L*) against some invasive weeds” in *Journal of Environmental & Agricultural Sciences* (Vol. 3: 56-60, USA).
13. N. Ahuja, H. P. Singh, D. R. Batish, and Prof. R. K. Kohli published a paper “Eugenol-inhibited root growth in *Avena fatua* involves ROS-mediated oxidative damage” in *Pesticide Biochemistry and Physiology* (Vol. 118, 64-70) Elsevier.
14. Neha Sharma and Dr. Alpna Saini from Centre for Comparative Literature published a paper titled “Psycho-Sexual Construction of the Subjects in Sudhir Kakar's *The Ascetic of Desire*” in *Journal of Literature and Art Studies* (Vol. 5, No 5, May, 2015).
15. Sandeep Kaur and Dr. Alpna Saini from Centre for Comparative Literature published a paper titled “Divided Space and the Divided Subject: A Comparative Analysis of Shauna Singh Baldwin's *What the Body Remembers* (1999) and Tahmima Anam's *A Golden Age* (2007)” in *Literary Voice* (Vol. 1 No. 4, March, 2015).

B. Participation in Training Programmes/Seminars/Conferences

1. Ajay Kumar and Dr. Kamlesh Yadav from Centre for Physical and Mathematical Sciences presented a paper on “Optical Properties of $\alpha\text{-Fe}_2\text{O}_3$ and $\alpha\text{-Fe}_{2-x}\text{Cr}_x\text{O}_3$ ($x=0.0, 0.1, 0.2, 0.3, 0.4, 0.7$ and 0.9) Nanocrystallite Thin Films Deposited by Spray Pyrolysis Technique on Glass Substrate” in the *4th International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics with Applications, CDAMOP 2015*, University of Delhi, New Delhi-110001; March 11-14, 2015.
2. Ajay Kumar and Dr. Kamlesh Yadav from Centre for Physical and Mathematical Sciences presented a paper on “Optical Properties of $\alpha\text{-Fe}_2\text{O}_3$ and $\alpha\text{-Fe}_{2-x}\text{Cr}_x\text{O}_3$ ($x=0.0, 0.1, 0.2, 0.3, 0.4, 0.7$ and 0.9) Films Prepared by Spray Pyrolysis” in the National Conference on *Condensed Matter Physics and Applications-CMPA-2015*, Manipal University, Manipal-576104; March 27-28, 2015.
3. Devender Jalandhara and Dr. Kamlesh Yadav from Centre for Physical and Mathematical Sciences presented a paper on “Optical Properties of BiFeO_3 Nanoparticles”, in the *3rd National Conference on Nanoscience and Instrumentation Technology-NCNIT-2015*, organised by National Institute of Technology, Kurukshetra, Haryana; June 6-7, 2015.
4. Dr. Alpna Saini from Centre for Comparative Literature presented a paper on “The Use of Folklore and Myth towards an Understanding of Female Subjectivity: An Analysis of Girish Karnad's *Nagamandala* and *Hayavadana*” in the *3rd All India Conference on Linguistics & Folklore on emerging Trends in Literature, Language and Folklore* at PAU, Ludhiana; May 28, 2015.
5. Dr. Amandeep Brar from Centre for Comparative Literature presented a paper on "Ecology and Development: A Comparative Study of *The Hungry Tide* and *Gehar Charhi Asmaan*" in the *XIIIth CLAI Biennial International Conference 2015 on Culture, Arts and Socio-political Movements in South Asia: Comparative Perspectives* at University of Rajasthan, Jaipur; March 1-4, 2015.
6. Dr. Bhupinder Singh, Professional Assistant, presented a paper on “RIFD Technology Applicable in Libraries” in the *Faculty Development Programme on Automation and Digital Library* organised by Central Library, MIMIT, Malout; June 1-5, 2015.
7. Dr. Jubilee Padmanabhan from Centre for Education presented a paper on “Education for Sustainable Development and Value Integration” in a National Seminar on *Education for Peace and Harmony* organised by Shree Satya Sai B.Ed. College, Muktsar, Punjab; April 25- 26, 2015. The paper deals with how education for sustainable development helps in value integration focusing on the values enshrined by UNESCO.
8. Dr. Kiran K. Singh from Centre for South and Central Asian Studies presented a paper on “Geography of Natural Disaster and Poverty in South Asia” in the International Seminar on *Poverty and Deprivation in South Asia*, organised by Centre for the Study of Nepal & Department of Economics, Faculty of Social Science, Banaras Hindu University (BHU), Varanasi; March 9-11, 2015.
9. Dr. Kiran K. Singh from Centre for South and Central Asian Studies attended the 72nd Orientation Course organised by Human Resource Development Centre, Banaras Hindu University, Varanasi; June 3-30, 2015.
10. Dr. Kiran K. Singh from Centre for South and Central Asian Studies delivered lectures as a resource person on “Types of Research Design: Experimental; Control Group & Experimental Group; Ex-Post Facto Research Design; Concepts in Research: Variables, Attributes” in an ICSSR, New Delhi, sponsored *Research Methodology Workshop* organised by P.G Department of Sociology, Guru Nanak College for Girls, Sri Muktsar Sahib; March 25, 2015.

11. Dr. Puneeta Pandey, Centre for Environmental Sciences and Technology coordinated the 14th Outreach Program on "Applications of Remote Sensing and GIS for Natural Resources" from January 27-March 27, 2015. The programme was received live through internet using A-VIEW software from the Indian Institute of Remote Sensing (IIRS), Dehradun. This Programme was sponsored by National Natural Resources Management System (NNRMS) and was organised by Indian Institute of Remote Sensing, Indian Space Research Organisation and Department of Space, Government of India. 26 participants registered for the course, out of which 21 successfully completed the course.
12. Dr. Raj Kumar from Centre for Chemical and Pharmaceutical Sciences attended an Orientation Programme organised by Panjab University, Chandigarh; February 8, 2015 to March 10, 2015.
13. Dr. Raj Kumar from Centre for Chemical and Pharmaceutical Sciences attended a refresher course organised by Punjabi University, Patiala; May 4-23, 2015.
14. Dr. Rajinder Kumar Sen from Centre for Comparative Literature presented a paper on "Human Rights and Literature: A detailed study of Dalit Literature" in an ICSSR sponsored National Seminar on *Education for Peace and Harmony* on April 25-26, 2015 at Shree Satya Sai B.Ed College, Karaiwala, Malout. This paper involved the violation of Human Rights of Dalits in India through Dalit Literature, and the role of education in the protection of their human rights.
15. Dr. Rajinder Kumar Sen from Centre for Comparative Literature presented a paper on "Folklore in Regional Novels: A detailed study of the selected Novels of Hindi" in the *3rd All India Conference on Linguistics & Folklore (Emerging Trends in Language, Literature & Folklore)* organised by Department of Agricultural Journalism, Languages & Culture, Punjab Agricultural University, Ludhiana, in association with Punjabi Linguistics Association, Patiala; May 28-29, 2015. This paper deals with the presentation of folklores in Regional Novels of Hindi.
16. Dr. Ramanpreet Kaur from Centre for Punjabi Language, Literature and Culture presented a paper on "Punjabi Bhasha De Parmukh Adhyan-Rujhan ate Path-Vihyanak Adhyan Vidhi" in the *3rd All India Conference of Linguistics and Folklore on Emerging Trends in Literature, Language & Folklore* organised by Punjab Agricultural University in collaboration with Punjabi Linguistics Association, Patiala; May 28-29, 2015. The paper deals with the emerging trends in Punjabi linguistic studies with special focus on Textual Semantics.
17. Dr. Yogalakshmi K. N. from Centre for Environmental Sciences and Technology attended an Orientation Programme at UGC-HRD centre, University of Madras, Chennai; May 14-June 10, 2015.
18. Gurdhir Singh and Dr. Kamlesh Yadav from Centre for Physical and Mathematical Sciences presented a paper on "Study of Optical Properties of Iron Oxide Nanoparticle" in the *3rd National Conference on Nanoscience and Instrumentation Technology-NCNIT-2015* organised by National Institute of Technology Kurukshetra, Haryana; June 6-7, 2015.
19. Neha Bhardwaj and Dr. Kamlesh Yadav from Centre for Physical and Mathematical Sciences presented a paper on "Synthesis and characterisation of BiMnO₃ and Bi(Mn,AE)O₃ (AE = Cr, Fe, Co, and Zn) nanoparticles assisted by microwave organic synthesis and sol-gel technique" in the National Conference on *Condensed Matter Physics and Applications-CMPA-2015* organised by Manipal University, Manipal; March 27-28, 2015. She was awarded the 'Best Research Paper Award' in Oral presentation.
20. Neha Bhardwaj and Dr. Kamlesh Yadav from Centre for Physical and Mathematical Sciences presented a paper on "Optical and Dielectric Properties of BiMn_{1-x}AE_xO₃ (AE=Cr, Fe, Co, and Zn; x=0, 0.1) Nanoparticles Synthesized by Sol-Gel Technique" in the *4th National Conference on Advanced Materials and Radiation Physics -AMRP-2015* organised by Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur; March 13-14, 2015.
21. Reena Rani and Dr. Kamlesh Yadav from Centre for Physical and Mathematical Sciences presented a paper on "Study of Optical Properties of BaMn_{1-x}Cr_xO₃ (x=0.0, 0.1, 0.2, 0.3, 0.4, 0.5) Manganites using Microwave Synthesis Method" in the *4th National Conference on Advanced Materials and Radiation Physics -AMRP-2015* organised by Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur; March 13-14, 2015.
22. Reena Rani and Dr. Kamlesh Yadav from Centre for Physical and Mathematical Sciences presented a paper on "Study of the BaMnO₃ and Cr doped BaMnO₃ Perovskite", in the National Conference on *Condensed Matter Physics and Applications-CMPA-2015* organised by Manipal University, Manipal; March 27-28, 2015. She was awarded the 'Best Research Paper Award' in Poster presentation.
23. Shivam Shukla and Dr. Kamlesh Yadav from Centre for Physical and Mathematical Sciences presented a paper on "Effect of Ti³⁺ Doping on Optical Properties in Zn_{1-x}Ti_xO (where x = 0.0, 0.1, 0.3 and 0.5) Nanoparticles" in the *3rd National Conference on Nanoscience and Instrumentation Technology-NCNIT-2015*, organised by National Institute of Technology, Kurukshetra; June 6-7, 2015.

C. Research Grants

1. Dr. Jubilee Padmanabhan and Dr. Shireesh Pal Singh from Centre for Education received a sanction of Rs. 2,00,000/- from ICSSR for conducting a National Seminar on Education for Sustainable Development at Central University of Punjab, Bathinda.
2. Dr. Yogalakshmi K. N. from Centre for Environmental Sciences and Technology received extra mural grant from Board of Nuclear research (BRNS), Bhaba Atomic Research Centre, Trombay, Mumbai, for the project “Spatial distribution of Uranium and associated water quality parameters in groundwater/drinking water resources of five districts of Punjab (Fazilka, Muktsar, Mohali, Sangrur and Patiala)” amounting to Rs. 24.49 lacs for a duration of two years (Dec 2014-2016). The project work will include estimation of the concentration of uranium and other associated water quality parameters in the ground water/drinking water resources of five southern districts of Punjab. Co-PI is Dr. Vinod Pathania, Centre for Chemical and Pharmaceutical Sciences.

D. Awards/Honours

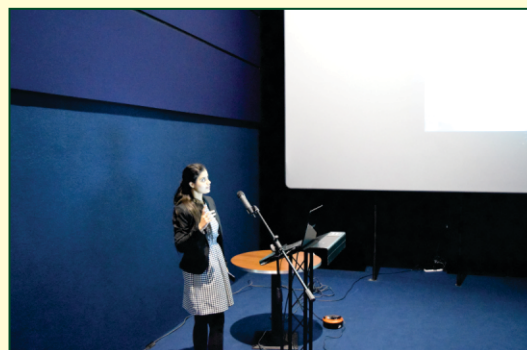
1. Prof. R. K. Kohli has been elected to the 11 member International Task Force on Forests and Biological Invasions (2015-2020) of the International Union of Forestry Research Organization (IUFRO), Austria. IUFRO is the oldest, largest, and richest Forestry organisation involving 15000 members from 110 countries.
2. Under the supervision of Prof. R. K. Kohli, Ph.D. degree was awarded to Ms. Nitina Ahuja on the Thesis entitled “An assessment of the herbicidal potential of Eugenol and some insights into its mode of action”.

E. JRF/NET Cleared

Sr.no.	Name	Centre	NET/JRF
1	Shishir Upadhyay	Centre for Biosciences	JRF
2	Renu Yadav	Centre for Biosciences	NET
3	Amita Get	Centre for Computer Science and Technology	NET
4	Dharmveer	Centre for Computer Science and Technology	NET
5	Gaurav Kumar	Centre for South and Central Asian Studies	NET
6	Kuldip Singh Nabha	Centre for South and Central Asian Studies	NET
7	Radhe Shyam Yadav	Centre for Environmental Sciences and Technology	NET
8	Vijay Jaswal	Centre for Environmental Sciences and Technology	NET
9	J. Vineesh Prakash	Centre for Economic Studies	NET
10	Mohammad Fayaz	Centre for Economic Studies	NET
11	Noushad A. P.	Centre for Economic Studies	NET
12	Bishwajeet Prakash	Centre for Economic Studies	NET

F. Papers presented/Seminars/Conferences/Workshops attended by Students

1. Amandeep Kaur from Centre for Comparative Literature presented a paper on “Gendered Construction of Female Subjectivities in Atamjit's Play *Main Tan Ik Saarangi Han*” in the U.G.C sponsored One Day National Seminar on *Human Rights: Concerns and Challenges* organised for the promotion of Ethics and Morals in Human Rights by R.S.D. College, Ferozepur; March 26, 2015.
2. Barjinder Singh from Centre for Comparative Literature presented a paper at the International Conference on *Indian/Punjabi Diasporic Cinema: Narratives of Transnational Experience* organised by Centre for Diaspora Studies, Punjabi University, Patiala; March 25-27, 2015.
3. Barjinder Singh from Centre for Comparative Literature attended a two week training workshop on *Capacity Building Training Programme for Young Faculty/Research Scholars in Social Sciences*, organised by the ICSSR North-Western Regional Centre, Chandigarh; March 2-15, 2015.
4. Devendra Kumar Gora from Centre for Comparative Literature presented a paper on “Tribal Identity Concerns in Literature: A Comparative Study of Chinua Achebe's *Things Fall Apart* and Gopinath Mohanty's *The Ancestor*” in a National Conference on *Multiculturalism, Identity Crisis and Belongingness in Indian writing in English*, jointly organised by Sahitya Akademi, New Delhi, and Department of Humanities & Social Sciences, IIT Roorkee; March 21-22, 2015.
5. Gajendra Singh Vishwakarma from Centre for Environmental Sciences and Technology presented a paper on “Physical characterisation, Antioxidant activity and computational analysis of *Ocimum sanctum* (L.) Essential oils loaded β -Cyclodextrins Micro-Inclusions” in an International Conference on *Natural Polymers and Biomaterials* at Mahatma Gandhi University, Kottayam, Kerela; April 8-11, 2015.
6. Gajendra Singh Vishwakarma from Centre for Environmental Sciences and Technology presented a paper on “Phytotoxic modern selectivity analysis of *Eucalyptus tereticornis* essential oil against rice (*Oryza Sativa*) and its weeds, *Echinochloa crus-galli* and *Cyperus rotundus*” at National Symposium on *Modern Agro-Techniques for Nutritional and Health security* at Dr. Y. S. Parmar University, Solan, Himachal Pradesh; April 20-23, 2015.
7. Gini Rani from Centre for Environmental Sciences and Technology presented a poster entitled “Start up and Operation of Microbial Electrolysis Cell for the Treatment of Dairy Industry Waste Water” at an International Conference on *Recent Advances in BIO- ENERGY Research* at Sardar Swarn Singh National Institute of Renewable Energy, Kapurthala, Jalandhar; March 14-17, 2015.
8. Kavita Dhillon, Neha Sharma, and Sandeep Kaur from Centre for Comparative Literature attended a National Conference on *Reinterpreting Identity, Culture and History in Contemporary South Asian Literature* organised by Dept. of English, Mata Gujri College, Fatehgarh Sahib, Punjab; March 30-31, 2015.
9. Navrattan Kaur from Centre for Biosciences, from Dr. Anil K. Mantha's group, was selected for an oral presentation in the “*2015 Alzheimer's Disease Congress*” in London; June 23-25, 2015. She presented her work entitled “APE1/Ref-1 in association with Ginkgolide B augments mitochondrial OXPHOS against A β (25-35)-induced oxidative stress”.
10. Rajandeep Kaur from Centre for Comparative Literature presented a paper on “Voices of Oppressed: A Study of Veena Verma's *Phirangian Di Nuh* in a National Conference on *Reinterpreting Identity, Culture and History in Contemporary South Asian Literature* organised by Dept. of English, Mata Gujri College, Fatehgarh Sahib, Punjab; March 30-31, 2015.
11. Sameer Ahmad Shah from Centre for Comparative Literature presented a paper on “Ambivalent Identity: A Study of Selected Indian Diasporic Fiction” in a National Conference on *Reinterpreting Identity, Culture and History in Contemporary South Asian Literature* organised by Dept. of English, Mata Gujri College, Fatehgarh Sahib, Punjab; March 30-31, 2015.
12. Shilpa Sharma from Centre for Environmental Sciences and Technology presented a paper on “Arsenic induced physiological changes in improved varieties of rice grown in Malwa region of Punjab” at National Symposium on *Modern Agro-techniques for Nutritional and Health security* at Dr Y. S. Parmar University, Solan, Himachal Pradesh; April 20-23, 2015.



Navrattan Kaur presenting her work

13. Showkat Ahmad Naik from Centre for Comparative Literature presented a paper on “Segregation and Integration of Culture amid Diaspora: Representations in *Born Confused* and *Queen of Dreams*” in an International Conference on *Culture, Arts and Socio-Political Movements in South Asia: Comparative Perspectives* organised by South Asia Studies Centre, and Department of Urdu and Persian, University of Rajasthan, Jaipur, in collaboration with Comparative Literature Association of India; March 19-22, 2015.
14. Sayar Singh Chopra from Centre for Comparative Literature presented a paper on “Tribal Identity Concerns in Literature: A Comparative Study of Chinua Achebe's *Things Fall Apart* and Gopinath Mohanty's *The Ancestor*”, in a National Conference on *Multiculturalism, Identity Crisis and Belongingness in Indian writing in English*, jointly organised by Sahitya Academy, New Delhi, and Department of Humanities & Social Sciences, IIT Roorkee; March 21-22, 2015.

Infrastructural Strides

The university is consistently committed to enhance its infrastructure. The recent major infrastructural advances of the university are its purchases of dynamic laboratory equipment.

Laboratory Centrifuge

The cooling centrifuge Remi CM8 plus has been purchased through the UGC project Grant BSR20-12 (2012) by PI Dr. Sunil Mittal, Centre for Environmental Sciences and Technology. The instrument is an essential part of various protocols related to purification and separation techniques of macromolecules. Its work on the 6000 rpm under the temperature ranges from 4°C-30°C. It can be utilised for the wide ranges of Samples from 2ml to 50ml.



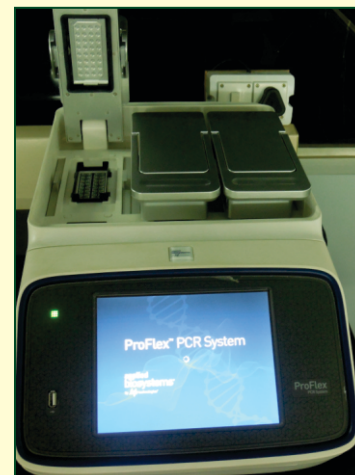
Laboratory Spray Drier



Prof. Kohli purchased, from his research grant, a laboratory based spray drier. It is an essential instrument used in the field of encapsulation and formulation synthesis process. The instrument has two-fluid, co-current, SS-316L, 0.7mm with Auto De-blocking Device nozzle which enables the smooth and micro sized powdered sample. It is used in weed research and other field based experiments involving volatile organic compounds and several other applications.

Gradient Polymerase Chain Reaction System

PCR (polymerase chain reaction) is an invaluable tool for molecular biology research. It is a regular technique used in laboratories around the world in a wide array of applications such as cloning, gene expression analysis, genotyping, sequencing, and mutagenesis. Centre for Genetic Diseases and Molecular Medicine and Centre for Human Genetics procured gradient PCR machine “ProFlex™ PCR System” from Applied Biosystems. It is a thermal cycler that allows simultaneous remote access by three users to control three independent blocks (3 x 32 wells) at three different times.



Meet our Students and Faculty

Almost at Everest

I was part of a 17-day trekking expedition team consisting of 10 girls selected from across India out of over 7500 aspirants as a part of a *Fulfill Your Everest Initiative*, launched by Star Plus channel and Fair and Lovely (FAL) Foundation. The team was assembled to commemorate 50 years of Indian Ascent to Mount Everest. Our team was led by none other than Mr Jamling Tenzing Norgay, son of the legendary Tenzing Norgay, the first Everest Summiteer. The ascent commenced on April 21 from Lukla and we were hoping to rendezvous with the other legend, Mr. Peter Hillary s/o Edmund Hillary, who would be at the Everest Base Camp before our arrival. But nature had something else in our plan and the quake struck when we were less than two days short of Everest Base Camp, followed by a series of aftershocks, forcing us to freeze wherever we were near a place called Tengboche at 13,000 ft. Efforts to rescue our team from the remote location were unsuccessful for 3-4 days as helicopters could not land due to rain, snow, and poor visibility. We decided to trek further up to a small airstrip at Syangboche from where we were lifted out by a MI-17 after another night of stay near the airstrip area when the weather cleared intermittently.

The experience was, no doubt, harrowing, but at no stage we felt scared. I, like many others in the team, was disappointed when it was decided to abort the expedition. I, however, felt that a part of my Everest dream has been realised by meeting the legendary figures, Jamling Norgay and Peter Hillary who themselves are world renowned mountaineers and Everest summiteers. I also felt humbled when I had my first glimpse of Mount Everest (Sagar Matha in local language) and have developed tremendous respect for the grandness and the might of nature.

Navrattan Kaur
Ph. D Scholar
Centre for Biosciences



Navrattan Kaur with J. Tenzing Norgay

An Inspiring Week-Long Stay at the Rashtrapati Bhavan

I was among the 31 "President's Inspired Teachers" who got this rare opportunity to live in the Rashtrapati Bhavan for a week, as part of the in-residence programme with the President.

Over the course of our stay, we were given opportunities to relay our opinion on how to improve university education to several high-level officials including Vice Chairperson, NITI Ayog, Chairman, UGC, and Minister of HRD. Also, we had productive interactions with the heads of education wings of Intel, Microsoft, IBM, FICCI, ASSOCHAM, and CII. We were also invited to the swearing-in ceremony of Central Vigilance Commissioner and Central Information Commissioner at the famous Durbar Hall, where, to my utter pleasure, I interacted with the Prime Minister, Shri Narendra Modi, and Finance Minister, Mr. Arun Jaitley. Among the issues discussed in these meetings was a request to recognise Central Universities as Institutions of National Importance.

As part of the cultural activities under Indradhanush banner of the Rashtrapati Bhavan, we attended a Hindustani classical music concert by Begum Parveen Sultana and a special screening of the movie *Piku*. One of the greatest treasures of this visit is an autographed copy of the book by the President, *Thoughts and Reflections*. I came back to Bathinda not only with a handful of gifts from the President of India, that include a priceless treasure and a statue replica of the bust of Lord Buddha, but also with fond memories of the Rashtrapati Bhavan. I am amazed at the dignified manner with which the President had treated us all, and I think all teachers in India are honoured by his humbleness. The experience I had was dream-like, and it gave me more force and impetus to remain an 'Inspired' teacher throughout my life. Thank you, Mr. President!

Dr. Felix Bast
Assistant Professor
Centre for Biosciences



Dr. Bast being felicitated by the President

Nobel Laureates

Nobel Laureates in Physiology or Medicine 2014

The Nobel Assembly at the Karolinska Institute, a group of 50 professors whose 18-member working body evaluates nominations from scientists around the world and proposes top candidates, awarded the most prestigious prize for medical and physiological research, the Nobel.

Physiology or Medicine, "Discovery of the cells that constitute a positioning system in the brain".



The award went to John Michael O'Keefe for identifying nerve cells that enable the creation of a spatial map recognising our sense of "place", and the other half of the prize went jointly to the couple May-Britt Moser and Edvard I. Moser for identifying a separate set of nerve cells involved in navigation.

John O'Keefe, born in New York, graduated from the City College of New York. In 1967, he earned a Ph.D. in physiological psychology at McGill University in Montreal, and then moved for postdoctoral training to University College London, where he is now a professor of cognitive neuroscience. Dr. O'Keefe, a dual U.K.-U.S. citizen, is the director of the Sainsbury Wellcome Centre in Neural Circuits and Behaviour at University College London. To understand the ability to orient ourselves in space, John O'Keefe studied the movements of rats and signals from nerve cells in the hippocampus, an area located in the center of the brain. In 1971 he discovered that when a rat was at a certain location in a room, certain cells were activated, and that when the rat moved to another location, other cells became activated. That is to say, the cells form a kind of internal map of the room.

May Britt Moser and Edvard I. Moser were born in rural Norway and went to the same high school; however, they did not know each other well until they were undergraduates at the University of Oslo. They are professors at the Norwegian University of Science and Technology in Trondheim. They have even studied under Dr. O'Keefe as visiting scientists at University College London. Dr. May-Britt Moser is the director of the Centre for Neural Computation in Trondheim, Norway. Dr. Edvard Moser is the director of the Kavli Institute for Systems Neuroscience in Trondheim. May-Britt Moser is the eleventh woman to have won the medicine prize since its inception in 1901. Among the Nobel Laureate couples, the Mosers are the fifth to have won the Nobel Prize. In 2005 May-Britt Moser and Edvard I. Moser discovered a type of cell that is important for determining position close to the hippocampus, an area located in the center of the brain. They found that when a rat passed certain points arranged in a hexagonal grid in space, nerve cells that form a kind of coordinate system for navigation were activated. They then went on to demonstrate how these different cell types cooperate.

The findings of these scientists have paved a way for the better understanding of the spatial losses that occur in Alzheimer's and other neurological diseases. The findings would also help in understanding cognitive processes like memory, thinking, and planning. Their work spans four decades, revealing the existence of nerve cells that build up a map of the space around us and then track our progress as we move around.

Nobel Laureates in Peace 2014

The Nobel Prize in peace was presented by Norwegian Nobel Committee in Norway. It was awarded jointly to Kailash Satyarthi, 60-year-old “child rights activist” from Madhya Pradesh, and Malala Yousafzai, from Pakistan, who risked her life to wage a campaign for girls' education in Pakistan. Satyarthi is the seventh person from India to win a Nobel Prize and the second to win the Nobel Peace Prize after Mother Teresa, while Malala Yousafzai, from Pakistan, is the youngest winner of the Nobel Prize in any field at the age of 17 years.

Kailash Satyarthi, born in 1954, hails from Vidisha, India. Being a follower of Mahatma Gandhi, Satyarthi has been long involved in his fight for the rights of children and raises voice against child exploitation. He is a crusader of various forms of peaceful protests. He founded the Bachpan Bachao Andolan in 1980 and has acted to protect the rights of more than 83,000 children from 144 countries. As an analytical thinker, he made the issue of child labour a human rights issue, not a welfare matter or a charitable cause. He has established that child labour is responsible for the perpetuation of poverty, unemployment, illiteracy, population explosion and many other social evils. He has dedicated his prize to children in slavery.



Malala was shot in the head by a Taliban gunman on October 9, 2012 in Pakistan after coming to prominence for her campaigning for girls' education. After Taliban began attacking girls' schools in Swat, Malala gave a speech in Peshawar, Pakistan, in September 2008. The title of her talk was, "How dare the Taliban take away my basic right to education?" In early 2009, when she was 11 years old, Yousafzai wrote a blog under a pseudonym for the BBC detailing her life under Taliban occupation, their attempts to take control of the valley, and her views on promoting education for girls in the Swat Valley, her hometown. She rose in prominence, giving interviews in print and on television, and she was nominated for the International Children's Peace Prize by South African activist, Desmond Tutu. A 2013 issue of Time magazine

featured Yousafzai as one of "The 100 Most Influential People in the World". She was the winner of Pakistan's first National Youth Peace Prize, and the recipient of the 2013 Sakharov Prize. In July that year, she spoke at the headquarters of the United Nations to call for worldwide access to education, and in October the Government of Canada announced its intention that its parliament will confer Honorary Canadian citizenship upon Yousafzai. She was awarded the Nobel Prize for her “heroic struggle”, fighting for girls' right to education. She continues to campaign for girls' education, has spoken before the UN, met Barack Obama, and last year published the memoir *I am Malala*.

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