

## CURRICULUM VITAE

*ANAND SONKAR*

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### TEACHING EXPERIENCE

- **College** – Hansraj College, University of Delhi, Delhi, India
- **Start Date** – September 2003
- **End Date** – Current
- **Designation** – Assistant Professor (senior scale)
- **Responsibilities** – To impart theoretical and practical knowledge of Plant Sciences to the students of B. Sc. (H) Botany and B. Sc. Life Sciences
- **Subjects presently teaching:**
  - **Odd Semester:** Plant Physiology, Biodiversity
  - **Even Semester:** Plant Systematics & Bryophytes, Pteridophytes and Gymnosperms

### ADMINISTRATIVE EXPERIENCE

- **Teacher-In-Charge,** Department of Foreign Languages (2018–2019, 2019–2020)
- **Superintendent,** Practical Examinations (2018–2019)
- **Assistant Coordinator,** IGNOU study centre at Hans Raj College (Since 2018)
- **Nodal Officer,** NIRF Ranking (2017–18)
- **Superintendent Entrance Examination** (2016–17)
- **Superintendent Theory Examinations** (2016)
- **Public Information Officer** ( 2015)
- **Teacher-In-Charge,** Department of Botany, Hansraj College (2013–14 and 2014–15)
- **Coordinator, Star College Scheme** sponsored by Department of Biotechnology, Ministry of Science and Technology (Since 2014)
- **College Coordinator Examinations** (March – August 2012)
- **Superintendent Practical Examinations** (2009–2010)
- **Deputy Superintendent Theory Examinations** (2008–09)

## EDUCATIONAL QUALIFICATION

- Ph. D awarded in 2008

Department of Botany, University of Delhi, Delhi, India

- Title of thesis: Trees of Delhi, under the able guidance of Professor SR Yadav (Supervisor) & Dr Rajesh Tandon (Co-Supervisor)

- M. Phil. – 2003 (I Division)

Department of Botany, University of Delhi, Delhi, India

### Electives

- Physiology of Plant Growth and Development under the able guidance of Professor PS Ganapathy
- Molecular Biology and Genetics along with its Research Methodology under the able guidance of Dr Anjaiaha Vanamala and Dr VP Singh

### Dissertation

- Trees of Delhi University Campus, under the able guidance of Professor SR Yadav

- M. Sc. Botany – 2002 (I Division)

Hans Raj College, University of Delhi, Delhi - 110007

### Electives

- Crop Genetics and Plant Breeding
- Plants and Man

### Minor Projects

- Studied the flora of Jageshwar Wildlife Sanctuary, Jageshwar, Uttranchal, by quadrat & belt transect method. (Oct-2001)
- Assessed the status of Jageshwar Wildlife Sanctuary, Jageshwar, Uttranchal, & recommendations were suggested to maintain the same. (Oct-2001)

### Dissertation / Term Paper

- Studies on Biochemical & Quantitative Genetic Variation in two Cultivars of *Vigna unguiculata*, under the able guidance of Professor CR Babu (March-2002)
- Constrains on Growth of Cashew, under the able guidance of Professor AK Bhatnagar (March-2002)

- B. Sc. (H) Botany – 2000 (I Division)

Hans Raj College, University of Delhi, Delhi.

- DSSCE - 1996  
Central Board of Secondary Education, Delhi.
- DSSE - 1994  
Central Board of Secondary Education, Delhi.

#### ACADEMIC ACHIEVEMENTS

- Cleared **CSIR-UGC** test for Junior Research Fellowship (**JRF**) and eligibility for Lectureship (**NET**), held in **June-2002**
- Placed among the **TOP 20% JRF-NET** awardees in **Life Sciences for the year 2002** on the basis of merit list and hence selected for **Shyama Prasad Mukherjee Fellowship Test (SPMF) 2003**

#### RESEARCH, SCHOLARLY AND CREATIVE ACTIVITIES

- Accomplished Ph. D in the area of Plant Systematics at the Department of Botany, University of Delhi, Delhi, under the able guidance of Professor SR Yadav & Dr Rajesh Tandon. The work includes detailed floristic survey of trees present at the national capital territory of Delhi (NCT), enumeration of diversity, documentation of species richness. Detailed description of morphology, flowering and fruiting period, prominent locations where the species can be seen, common name, etymology and important notes pertaining the species. The work also includes identification of native, exotics, and introduced species; phenology of selected tree species was also studied; Carpological studies for selected tree species were done and they were marked with the help of Global Positioning System.
- Completed M. Phil. in the area of Plant systematics at the Department of Botany, University of Delhi, Delhi, as **Junior Research Fellow (CSIR)**, under the able guidance of Professor SR Yadav, from September 2002 to December 2003. The work comprises, Enumeration of tree species of the campus, along with detailed description of the plants, flowering & fruiting period and common names. A list of medicinally important trees present in the campus was also provided. A check list of newly introduced Palms to the university campus was also incorporated.

## RESEARCH PAPER/ ARTICLE

- Thakur RK, Rajpal VR, Chaudhary M, **Sonkar A**, Rama Rao S, Kaushal P, Dubey BK, Raina SN. 2020. Origin of natural *Tinospora* triploid as single most important event in the improvement of high value medicinal “Giloy” (*Tinospora cordifolia*). Journal of Plant research (Communicated, IF 2.2)
- Thakur RK, Rajpal VR, Raina SN, Kumar P, **Sonkar A**, Joshi Lata. 2020. UPLC–DAD Assisted Phytochemical Quantitation Reveals a Sex, Ploidy and Ecogeography Specificity in the Expression Levels of Selected Secondary Metabolites in Medicinal *Tinospora cordifolia*: Implications for Elites’ Identification Program. Current Topics in Medicinal Chemistry 20, 698–709
- Kumar M, Rawat AK, **Sonkar A**, Kumar A, Azhar A, Kumar M. and Khan MMA. Pellet Biochar: An Environmental Remedy in VS Parmar et al. 2018. Green Chemistry in Environmental Sustainability and Chemical Education. Springer.
- Vijay Rani Rajpal, Rakesh Thakur, **Anand Sonkar** and S. N. Raina. 2016 “Quantitative Estimation of Berberin using TLC and HPLC in *Tinospora cordifolia*, *T. sinensis* and *T. crispa*. Journal of Integrated Science and Technology 42: S1–S23, S2
- **Sonkar A**. Angiosperm Phylogeny Group. 2016. Swadeshi Vigyan 1(1). Online ISSN: 2456–0855
- **Sonkar A** and Sonkar S M. **Chemotaxonomy** in Gupta R. 2012. Plant Taxonomy: past, present and future. New Delhi: The Energy and Resource Institute (TERI)
- Yadav S R, Potdar G G, Kumar A, Otaghavari A M, **Sonkar A**. 2008. *Eriocaulon epedunculatum*, a new species of Eriocaulaceae from Western Ghats of India. Kew Bulletin. 63 (3): 503–505
- **Sonkar A** and Yadav S R. 2004. Enumeration of Trees of Delhi University. Botanica 54: 92–114

## RESEARCH PROJECTS

Title of the Project	Funding agency	Cost of Project (in Lakhs)	Status
Autotetraploid Induction ensuing heteroploid hybridization and associated rapid DNA changes as a possible means of genetic improvement of <i>Tinospora cordifoila</i> and <i>Tinospora sinensis</i>	National Medicinal Plant Board, Ministry of AYUSH, Govt of India	31.973	Completed 2016–2020
Utilization of Delhi's Garden waste for renewable and sustainable energy production	University of Delhi, Delhi	5.0	Completed 2016
Development of zero discharge eco-friendly, affordable and carbon neutral bio-fuel using in house horticultural waste	University of Delhi, Delhi	6.0	Completed 2015

Taxonomic and Phylogenetic studies on Genus <i>Heracleum</i> L. (Apiaceae) in India	DST-SERB	12	Completed 2015
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#### RESEARCH / TEACHING AWARD

- Awarded the “**Best Young Teacher Award**” by Grace India Charitable Trust on October 7<sup>th</sup> 2017
- Awarded “**Teaching Excellence Award for Innovation**” by the Vice Chancellor University of Delhi, Delhi on May 1<sup>st</sup> 2015.
- The Innovation Project entitled “Development of zero discharge eco-friendly, affordable and carbon neutral bio-fuel using in house horticultural waste” was awarded for its **Best Innovative Idea** at Antardhawani 2015

#### ABSTRACT PUBLISHED IN SEMINARS / SYMPOSIUM/ JOURNAL

- Manoj Kumar, Amit Rawat, **Anand Sonkar**, Amar Kumar, Mallika Kumar and Anusha Azhar. 2016 “Utilization of Delhi’s garden and horticultural waste for environmental remediation and energy production” in International Conference on Green Chemistry in Environmental Sustainability and Chemical Education (ICGC-2016), Daulat Ram College, University of Delhi, India.
- Manoj Kumar, Amar Kumar, Amit Kumar, **Anand Sonkar**, Anusha Azhar, Mallika Kumar. 2016. “Utilization of Delhi’s Organic Waste for Environmental Remediation” in National Symposium on *Emerging Issues of Climate Change: Sustainability and Economic Implications*. Shri Aurobindo College, University of Delhi, India
- Vijay Rani Rajpal, Rakesh Thakur, **Anand Sonkar** and S. N. Raina. 2016 “Quantitative Estimation of Berberin using TLC and HPLC in *Tinospora cordifolia*, *T. sinensis* and *T. crispa*, in Journal of Integrated Science and Technology [Online], Volume 4 Number 2 (11 March 2016) ISSN 2321-4635
- **Anand Sonkar** and SR Yadav. 2008 “Tree diversity of Delhi: Natives, Introductions and Exotics” in International Seminar on Multidisciplinary Approaches in Angiosperm Systematics, Kalyani, West Bengal, India. 89
- **Anand Sonkar** and SR Yadav. 2007 “Trees of Delhi – A Reappraisal” in International Seminar on Changing Scenario in Angiosperm Systematics, Kolhapur, Maharashtra. India. 161
- **Anand Sonkar** and SR Yadav. 2006 “Role of leaf characters in identification of *Ficus* species” in International Seminar on Present Trends and Future Prospects of Angiosperm Taxonomy, Pune, Maharashtra. India. 103

- **Anand Sonkar** and SR Yadav. 2006 “Trees for the Metropolitan Delhi” in National Conference on Biodiversity Related International Conventions: Role of Indian Scientific Community, Delhi. India. 112
- **Anand Sonkar** and SR Yadav. 2005 “Census of flowering trees of Delhi” in National Seminar on Emerging Trends in Plant Taxonomy, Nagpur, Maharashtra. India. 53
- **Anand Sonkar** and SR Yadav. 2004. “*Geoffroea decorticans* (Gillies ex Hook. & Arn.) Burkart – Fabaceae, An exotic legume of economic potential” in National Seminar on New Frontiers in Plant Taxonomy and Biodiversity Conservation, Thriuvananthapuram, Kerala. India. 146

#### INVITED LECTURE

- Delivered a lecture on “*Classification of plants – A morphological approach*” in 20-days In-service programme for Trained Graduate Teachers (TGT) of Directorate of Education under SSA – 2005 organized by *State Council of Educational Research and Training (SCERT), New Delhi* and Coordinated in District west by DIET Rajender Nagar, New Delhi held at Sarvodaya Co-ed Sr. Sec. School, Janakpuri, Delhi. (June-2005)

#### EDUCATIONAL & FIELD TRAINING PROVIDED

- Resource person for “Preparation of an inventory of trees and perennial plants in the college” at Ramjas College, University of Delhi on September 27<sup>th</sup>, 2017
- Involved in imparting field training to the students of Eco-club of Shyama Prasad Mukherji College. Punjabi Bagh, University of Delhi, Delhi, regarding the Identification and Nomenclature of Trees of their College campus. (Jan-Feb 2016)
- Involved in imparting the educational training and important information to the students of ETE, regarding the Identification, Classification, and Nomenclature of Angiosperms of Todapur forest area, at *District Institute of Education and Training (DIET)*, Rajinder Nagar, Delhi.
- Provided field training to the Trained Graduate Teachers (TGT) about the identification of plants based on morphological characters at 20-days In-service programme for Trained Graduate Teachers (TGT) of Directorate of Education under SSA – 2005 organized by *State Council of Educational Research and Training (SCERT), New Delhi* and Coordinated in District west by DIET Rajender Nagar, New Delhi held at Sarvodaya Co-ed Sr. Sec. School, Janakpuri, Delhi. (June-2005)

#### RESEARCH PAPERS PRESENTED – ORAL

- Presented a Research paper entitled **“Plants. What do they eat”** at Orientation Course 57 organized by *Centre for Professional Development in Higher Education, University of Delhi*, Delhi during 03 July to 30 July 2008, held at Academic Research Centre, University of Delhi. Delhi
- Presented a Research paper entitled **“Trees of Delhi – A reappraisal”** in *XVII Annual Conference of Indian Association for Angiosperm Taxonomy*, organized by *Shivaji University*, Kolhapur, Maharashtra, during 19–21 November, 2007
- Presented a Research paper entitled **“Endemic Plants of India”** at Refresher Course in Life Sciences entitled: “Critical Appraisal and Training on Recent Advances in Life Sciences” organized by *Centre for Professional Development in Higher Education, University of Delhi*, Delhi during 20 December 2005 to 9 January 2006, held at Department of Zoology, University of Delhi. Delhi
- Presented a Research paper entitled **“Census of flowering trees of Delhi”** in the *XV Annual Conference of Indian Association for Angiosperm Taxonomy* organized by *Department of Botany, Rashtrasant Tukadoji Maharaj Nagpur University*, Nagpur, Maharashtra during 20–21 October, 2005
- Presented a Research paper entitled **“*Geoffroea decorticans* (Gillies. ex Hook. & Arn. ) Burkart – Fabaceae”, An Exotic Legume of Economic Potential** in the *XIV Annual Conference of Indian Association for Angiosperm Taxonomy* organized by *Tropical Botanic Gardens and Research Institute (TBGRI)*, Thiruvananthapuram, Kerala during 29–31 December, 2004

#### RESEARCH PAPERS PRESENTED – POSTER

- Presented research paper entitled **“Utilization of Delhi’s garden and horticultural waste for environmental remediation and energy production”** in International Conference on Green Chemistry in Environmental Sustainability and Chemical Education (ICGC–2016), organized by Daulat Ram College, University of Delhi during 17<sup>th</sup> –18<sup>th</sup> November 2016
- Presented research paper entitled **“Utilization Of Delhi’s Organic Waste For Environmental Remediation”** in National Symposium on *Emerging Issues of Climate Change. Sustainability and Economic Implications*, organised by Shri Aurobindo College, University of Delhi during 21<sup>st</sup>–22<sup>nd</sup> October 2016
- Presented research paper entitled **“Tree diversity of Delhi. Natives, Introductions and Exotics”** in *XVIII Annual Conference of Indian Association for Angiosperm Taxonomy*, organized by *University of Kalyani*, Kalyani, West Bengal, during 11–13 October, 2008

- Presented research paper entitled “**Role of leaf characters in identification of *Ficus* species**” in *XVI Annual Conference of Indian Association for Angiosperm Taxonomy*, organized by ***Agharkar Research Institute***, Pune, Maharashtra, during 4–6 October, 2006
- Presented research paper entitled “**Trees for Metropolitan Delhi**” in *National Conference on Biodiversity Related International Conventions: Role of Indian Scientific Community*, organized by ***Delhi University Botanical Society***, Department of Botany, University of Delhi, Delhi, during 8–10 March, 2006

#### CONFERENCES, SEMINARS, SYMPOSIA & WEBINAR ATTENDED

- Attended the webinar series on “NAAC’s Assessment Criteria for Accreditation” organized by HANSRAJ COLLEGE Under PARAMARSH, a UGC scheme for mentoring NAAC accreditation aspirant institutions to promote quality assurance in higher education, held during June 8 –14, 2020
- Participated in a Three Day Webinar on “Shift in Paradigm: Online Education”, organised by Zakir Husain Delhi College, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi held during June 9 –11, 2020
- Organised and participated in a Two Days Webinar on “लॉकडाउन के दौरान तन और मन की देखभाल”, organised by Department of Botany and Internal Quality Assurance cell Hansraj College, University of Delhi held during May 14–15, 2020.
- Organised and participated in a Three Day Webinar on “Covid 19 : Challenges and Road Ahead” organised by Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi during May 7 – 9, 2020
- Attended the webinar series “Quality Assurance in Higher Education: Practices And Issues”, organized jointly with IQAC, HANSRAJ COLLEGE Under PARAMARSH, a UGC scheme for mentoring NAAC accreditation aspirant institutions to promote quality assurance in higher education, during May 4–8, 2020
- Participated in a One Day Webinar on “Leadership Role in Uncertain Times” organised by Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi on April 30<sup>th</sup> 2020
- Participated in a One Day Webinar on “Teachers and Technology: The Road Ahead” organised by Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi on April 25<sup>th</sup>, 2020

- Participated in the 4th India International Science Festival (IISF) and National Science Teachers Congress on 06th and 07th October, 2018 at Lucknow.
- Participated in **World Environment Day**, Celebration at Auditorium, Delhi Secretariat on 2<sup>nd</sup> February 2018
- Organized and attended **INSPIRE Internship Program (DST) – 2017**, organized by Hans Raj College, University of Delhi, held from December 12<sup>th</sup>-16<sup>th</sup>, 2017
- Attended **International Symposium on Plant Systematics, Priorities and Challenges**, organized by Department of Botany, University of Delhi, India during 10<sup>th</sup>-12<sup>th</sup> November, 2017
- Attended **International Conference on Green Chemistry in Environmental Sustainability and Chemical Education** (ICGC-2016), organized by Daulat Ram College, University of Delhi, India during 17-18<sup>th</sup> November 2016
- Attended National Symposium on **Emerging Issues of Climate Change, Sustainability and Economic Implications**, organised by Shri Aurobindo College, University of Delhi on 21<sup>st</sup> and 22<sup>nd</sup> October 2016
- Attended International Conference on **Innovating Education in Asia**, organized by Association for Innovative Education, from October 31<sup>st</sup> to November 2<sup>nd</sup>, 2015
- Attended Seminar on **Role of Technical Terminology in Higher Education**, organized by **Commission for Scientific and Technical Terminology**, MHRD, New Delhi on July 23<sup>rd</sup> and 24<sup>th</sup> 2015
- Attended International Conference on **Integrating Medicinal Plants with Forestry Sector**, organized by **National Medicinal Plant Board, Department of AYUSH, Ministry of Health and Family Welfare, Government of India**, on November 8<sup>th</sup> and 9<sup>th</sup> 2014
- Attended National Symposium on **Frontiers in Plant Molecular Biology**, organized by **Department of Plant and Molecular Biology**, University of Delhi South Campus, on September 27<sup>th</sup> and 28<sup>th</sup> 2013
- Organized and attended **National Conference on Relevance on Nanotechnology in Biology**, organized by **Department of Botany and Zoology**, Hans Raj College, University of Delhi, on March 1<sup>st</sup> 2013
- Organized and attended **INSPIRE Internship Program – 2012**, organized by Hans Raj College, University of Delhi, held from December 17<sup>th</sup>-21<sup>st</sup>, 2012
- Attended **International Seminar on Multidisciplinary Approaches in Angiosperm Systematics**, organized by **Department of Botany**, University of Kalyani, Kalyani, West Bengal, during 11-13 October 2008
- Attended **National Conference on Wetlands, Science, and Society – An Assessment of their Integration**, organized by **Delhi University Botanical Society**, Department of Botany, University of Delhi, Delhi, during 11-13 December, 2007

- Attended **International Seminar on Changing Scenario in Angiosperm Systematics**, organized by *Department of Botany*, Shivaji University, Kolhapur, Maharashtra, during 19–21 November, 2007
- Attended **National Seminar on Current Trends in Plant Sciences**, organized by *Delhi University Botanical Society*, Department of Botany, University of Delhi, Delhi, during 15–16 March, 2007
- Attended **International Seminar on Present Trends and Future Prospects of Angiosperm Taxonomy**, organized by *Agharkar Research Institute*, Pune, Maharashtra, during 4–6 October, 2006
- Attended **National Conference on Biodiversity Related International Conventions. Role of Indian Scientific Community**, organized by *Delhi University Botanical Society*, Department of Botany, University of Delhi, Delhi, during 8–10 March, 2006
- Attended **International Conference on Applied Phycology “Algae in Biotechnology and Environment”**, organized by *Department of Botany*, University of Delhi, Delhi, during 14–15 February, 2006
- Attended **National Seminar on Relevance of Botany in the Conservation and improvement of plants**, organized by *Delhi University Botanical Society*, Department of Botany, University of Delhi, Delhi, during 8–9 February, 2006
- Attended Conference on **New Developments in Rapeseed–Mustard**, organized by *Mustard Research and Promotion Consortium (MRPC)*, New Delhi on 21 January, 2006
- Attended **National seminar on Emerging Trends in Plant Taxonomy**, organized by *Department of Botany, Rashtrasant Tukadoji Maharaj Nagpur University*, Nagpur, Maharashtra during 20–21 October, 2005
- Attended **National Seminar on Genetically Modified Organisms – Biosafety Aspects**, organized by *Delhi University Botanical Society*, Department of Botany, University of Delhi, Delhi, during 10–11 March, 2005
- Attended **National Seminar on New Frontiers in Plant Taxonomy and Biodiversity Conservation** organized by *Tropical Botanic Garden and Research Institute (TBGRI)*, Thiruvananthapuram, Kerala during 29–31 December, 2004
- Attended **National Seminar on Climate Change in India and its Impact on Plant Diversity and Productivity** and **Delhi University Botanical Society Paper Presentation Contest for Professor B. M. Johri Rolling Shield**, organized by *Delhi University Botanical Society*, Department of Botany, University of Delhi, Delhi, during 22–23 December, 2003
- Attended **International Symposium on Ecology of Biological Invasion** organized by *School of Environmental Studies*, University of Delhi, Delhi, during 4–6 December, 2003

- Organized as well as attended **National Seminar on Genetically Modified & Transgenic Food Crops** organized by *Delhi University Botanical Society*, Department of Botany University of Delhi, Delhi, during 26–27 November, 2002
- Attended **National Symposium on Biotechnology, Energy and Environment in the New Millennium – Indian Scenario**, organized by *Daulat Ram College*, University of Delhi, Delhi, during 8–10 December, 1999

#### FDP / WORK-SHOP / TRAINING PROGRAMMES ATTENDED

- Participated and successfully completed the Weeklong Online Workshop on Assessment and Evaluation conducted in Online Mode organized by Teaching Learning Centre, Tezpur University under PMMMNMTT Scheme of Ministry of Education, Government of India during August 24 and 29, 2020.
- Participated and successfully completed a One week Online National workshop on "Learning management System: Moodle", organized by Teaching Learning Centre, SNDT Women's University under PMMMNMTT Scheme of Ministry of Education, Government of India during July 27 – August 2, 2020.
- Participated and successfully completed Two Weeks Online Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS", organized by Teaching Learning Centre, Ramanujan College under PMMMNMTT Scheme of Ministry of Education, Government of India during April 20 – May 06, 2020.
- Participated and successfully completed a Eight day Online national workshop on "ICT TOOLS FOR ONLINE LEARNING", organized by Teaching Learning Centre, SNDT Women's University under PMMMNMTT Scheme of Ministry of Education, Government of India during April 20 – 28, 2020.
- Participated in Three day Faculty Development Programme on **Fundamentals of Intellectual Property Rights** organized by Department of Botany & IQAC (HRC) in association with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi held on during January 23 and 25, 2020
- Participated in One day workshop on **Personal financial and Tax Planning** organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi on November 16<sup>th</sup> 2019
- Participated in Short term course on **Research Methodology** organized by *Centre for Professional Development in Higher Education, University of Delhi*, Delhi during 18<sup>th</sup> December 2018 to 24<sup>th</sup> December 2018, held at Academic Research Centre, University of Delhi, Delhi.

- Participated in the **Level 2** of the **STEM Teacher Training Workshop on Research Based Pedagogical Tools** held from December 6<sup>th</sup> to December 8<sup>th</sup> 2017 at Indian National Science Academy, Delhi, organized by Department of Biotechnology (Government of India); Newton Bhabha Fund of the British Council; Center of Excellence in Science and Mathematics Education, Indian Institute for Science Education and Research, Pune. The workshop was conducted by a team of experts from the Centre for Science Education, Sheffield Hallam University, UK
- Participated in the **Level 1** of the **STEM Teacher Training Workshop on Research Based Pedagogical Tools** held from October 11<sup>th</sup> to October 14<sup>th</sup> 2017 at Sacred Heart College, Kochi, Kerala, organized by Department of Biotechnology (Government of India); Newton Bhabha Fund of the British Council; Center of Excellence in Science and Mathematics Education, Indian Institute for Science Education and Research, Pune and Sacred Heart College, Kochi. The workshop was conducted by a team of experts from the Centre for Science Education, Sheffield Hallam University, UK
- Participated in a Workshop on **How to get published research papers in the right journals** organized by Grace India Educational Charitable Trust, Delhi, on October 7<sup>th</sup> 2017 at Hans Raj College, University of Delhi.
- Successfully completed a four-week open online course (MOOC) offered by the American English Institute, University of Oregon on Introduction to Scientific Writing in April 2017
- Participated in a two day Workshop on **Biostatistics** organized by Department of Botany and Mathematics, Zakir Husain Delhi College, University of Delhi, from March 9<sup>th</sup> to March 10<sup>th</sup> 2017
- Participated in One week Workshop on **Academic and Creative Writing** organized by **Centre for Professional Development in Higher Education, University of Delhi**, Delhi during 20<sup>th</sup> September 2016 to 26<sup>th</sup> September 2016, held at Academic Research Centre, University of Delhi, Delhi.
- Organized and Attended National Workshop on Ethnobotany, organized by Department of Botany, Hansraj College, University of Delhi and Institute if Life Long Learning, University of Delhi, from September 16<sup>th</sup> to 17<sup>th</sup>, 2016
- Attended a National Workshop on Training the Trainers: IPR Workshop, organized by IPR Chair and CIC-CSEC in Collaboration with Ramjas College, University of Delhi, from August 11<sup>th</sup> to 13<sup>th</sup>, 2016
- Attended Indo Portuguese Workshop on Emerging Trends of Nanotechnology in Chemistry and Biology, organized by Department of Chemistry, Hans Raj College and Deshbandhu College, University of Delhi in association with *Centro de Química da Madeira University da Madeira*, PORTUGAL, from February 12<sup>th</sup> to 13<sup>th</sup>, 2016

- First Knowledge Conclave for Colleges and Universities organized by Centre for Science and Environment, Tughlakabad, New Delhi on January 28–29, 2016
- Workshop on RTI on International RTI day organized by RTI Institute of India, New Delhi on September 28<sup>th</sup> 2015
- National workshop on Evolutionary perspectives in modern biological teaching and research organized by Institute of Life Long Learning, Centre for Science Education and Communication & Acharya Narendra Dev College, University of Delhi, Delhi, during 9–10 May, 2011
- Workshop on Content Creation for e-Learning (Enabling Teaching and Learning), organized by Campus of Open Learning, University of Delhi, Delhi, during 25–27 August, 2006
- Workshop on hands on training for digital video camera, organized by Centre for Science Education and Communication, University of Delhi, Delhi, during 8–9 July, 2005
- Workshop on the **“Essentials of Biology” Foundation Course paper**, organized by Centre for Science Education and Communication, University of Delhi, Delhi, during 5–6 May, 2005
- Workshop on **Implementation of new curriculum in B. Sc. (H) Botany and B. Sc. Gen Group-B**, organized by Centre for Science Education and Communication, University of Delhi, Delhi, during 25–28 April, 2005.
- Training Programme on **Biosafety Concerns of Transgenics and Detection of LMOs**, organized by National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi, during 14–21 March, 2005.

#### REFRESHER / ORIENTATION COURSE

- Participated in a three week Refresher Course in **“Environmental Studies (ID)”** organized by *Centre for Professional Development in Higher Education, University of Delhi*, Delhi during 7 January to 28 January 2013, held at Academic Research Centre, University of Delhi, Delhi.
- Participated in a three week Refresher Course in **“Life Sciences”** organized by *Centre for Professional Development in Higher Education, University of Delhi*, Delhi during 15 February 2011 to March 9 2011, held at Academic Research Centre, University of Delhi, Delhi.
- Participated in a four week Orientation Course (OR-57) organized by *Centre for Professional Development in Higher Education, University of Delhi*, Delhi during 03 July to 30 July 2008, held at Academic Research Centre, University of Delhi, Delhi.
- Participated in a three week Refresher Course in **Life Sciences** entitled: **“Critical Appraisal and Training on Recent Advances in Life Sciences”** organized by *Centre for Professional Development in Higher*

*Education, University of Delhi*, Delhi during 20 December 2005 to 9 January 2006, held at Department of Zoology, University of Delhi. Delhi.

#### MEMBERSHIP OF LEARNED BODIES

- Life member of **Indian Association for Angiosperm Taxonomy (IAAT)**
- Life member of **Delhi University Botanical Society (DUBS)**
- Life member of **Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES)**

#### MEMBER OF COMMITTEES AT COLLEGE

For Academic year 2021-2022

- Member: Equal Opportunity Cell
- Member: Canteen Committee

For Academic year 2020-2021

- Member: Portal Committee
- Member: Canteen Committee

For Academic year 2019-2020

- Member: Student Union Advisory Committee
- Member: Portal Committee
- Member: Canteen Committee

For Academic year 2018-2019

- Member: Student Union Advisory Committee
- Member: Student Welfare Committee
- Member: Admission Committee

For Academic year 2017-2018

- Member: Student Union Advisory Committee
- Member: Student Welfare Committee
- Member: Admission Committee

For Academic year 2016-2017

- Member: Grievance Committee
- Member: Time-Table Committee
- Member: Students Union Advisory Committee

For Academic year 2015–2016

- Member: Monitoring Committee
- Member: Special Category Admission Committee
- Member: Annual Day Prize Distribution Committee
- Member: Students Union Advisory Committee

For Academic year 2014–2015

- Member: Admission Committee
- Member: Library Committee
- Member: Hostel Committee
- Member: Discipline Committee
- Member: Sports Committee
- Member: Work Load Committee
- Member: Garden Committee
- Member: Central Purchase Committee

For Academic year 2013–2014

- Convenor: Equal Opportunity Cell
- Member: Admission Committee
- Member: Library Committee
- Member: Hostel Committee
- Member: Discipline Committee
- Member: Sports Committee
- Member: Work Load Committee
- Member: Garden Committee
- Member: Central Purchase Committee

For Academic year 2012–2013

- Convenor: Time Table Committee (Sciences)
- Member: Discipline Committee
- Member: Grievance Committee (Admissions)

For Academic year 2011–2012

- Convenor: Time Table Committee (Sciences)

For Academic year 2010–2011

- Convenor: Time Table Committee (Sciences)

- Member: Discipline Committee

For Academic year 2009–2010

- Member: Admission Committee (Sciences)
- Member: Discipline Committee

For Academic year 2008–2009

- Member: Resource Allocation Committee

For Academic year 2007–2008

- Member: Student Welfare Committee

For Academic year 2006–2007

- Member: Student Welfare Committee

For Academic year 2005–2006

- Staff Advisor: *Botanique*, (Botanical Society of Hans Raj College)

#### MEMBER OF COMMITTEES/EDITORIAL BOARD

- Convenor: LOCF committee for Plant Ecology and Taxonomy paper (2019)
- Member: LOCF committee for Archegoniatae paper (2019)
- Member: Garden Committee of University of Delhi, Delhi (2016–19)
- Member: Flower Show Committee of University of Delhi, Delhi (2016–19)
- Member: Editorial Board of Biotech Express (Monthly Magazine)
- Member: Flower Show Committee of University of Delhi, Delhi (2015–16)
- Treasurer: Hans Raj College Alumni Association for the session 2015–2018
- Member: Coordination Committee constituted by Head (Department of Geology) and Dean Sciences for the year 2015–2016
- Executive Member: Hans Raj College Alumni Association for the session 2012–2015

#### POSITIONS OF RESPONSIBILITY HELD

- Organised two day faculty development programme on “Agriculture, Health and Society” (Interdisciplinary) from March 15 to 16, 2019 under the aegis of Mahatma Hansraj Faculty Development Centre, A centre of MHRD, Government of India under Pandit Madan Mohan Malaviya national Mission on Teachers and Teaching (PMMMNTT)

- Coordinated the Faculty Development Programme on Digital Literacy: An Introduction to ICT Skills organized by Department of Physics and Electronics, Hans Raj College, University of Delhi, Delhi from September 15 to 17, 2017
- Member of the organising committee for the annual inter-college quiz competition “QUEST 2016-17”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2016-17)
- **Convener** for the annual inter-college science aptitude test “QUEST 2012-13”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2012-13)
- Member of the organising committee for the annual inter-college quiz competition “QUEST 2011-12”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2011-12)
- Member of the organising committee for the annual inter-college quiz competition “QUEST 2010-11”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2010-11)
- Member of the organising committee for the annual inter-college quiz competition “QUEST 2009-10”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2009-10)
- **Convener** for the annual inter-college science aptitude test “QUEST 2008-09”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2008-09)
- **Convener** for the annual inter-college science aptitude test “QUEST 2007-08”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2007-08)
- Member of the organising committee for the annual inter-college quiz competition “QUEST 2006-07”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2006-07)
- **Co-Convener** for the annual inter-college quiz competition “QUEST 2005-06”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2005-06)
- Member of the organising committee for the annual inter-college quiz competition “QUEST 2004-05”, organized by the *Centre for Science Education and Communication (CSEC)*, University of Delhi, Delhi. (2004-05)
- **Vice President.** Delhi University Botanical Society, Department of Botany, University of Delhi, Delhi. (2002-2003)

- **Joint Secretary.** Delhi University Botanical Society, Department of Botany, University of Delhi. Delhi. (2000–2001)
- **Treasurer.** Botanical Society, Hans Raj College, University of Delhi. Delhi. (1999–2000)
- **Council member.** Botanical Society, Hans Raj College, University of Delhi. Delhi. (1998–1999)
- **House in charge.** Indira House (Dayanand Model School, Vivek Vihar, Delhi)

#### EXTRA CURRICULAR ACHIEVEMENTS

- Participated in Badminton Men's Doubles/Singles, Carom Board, organized by the Staff Association Hans Raj College, University of Delhi. (2011)
- Received Consolation Prize in Nature Photography Competition held at *Capitulum-2008* organized by Delhi University Botanical Society, University of Delhi. (March-2008)
- Participated in Slogan/Caption writing competition held at *Capitulum-2005* organized by **Delhi University Botanical Society**, University of Delhi. (March-2005)
- Participated in Slogan/Caption writing competition held at *Capitulum-2004* organized by **Delhi University Botanical Society**, University of Delhi. (Feb-2004)
- **Stood 1<sup>st</sup>** in one-minute game at *Mutation-2000*, held at **Hans Raj College**, Department of Botany, University of Delhi. (Jan-2000)
- **Stood 3<sup>rd</sup>** in communication gap at *Mutation-2000*, held at **Hans Raj College**, Department of Botany, University of Delhi. (Jan-2000)
- Represented **Hans Raj College** at **National Symposium on Biotechnology, Energy and Environment in the New Millennium – Indian Scenario** and **stood 1<sup>st</sup>** in Botanical rangoli competition held at **Daulat Ram College**, University of Delhi. (Dec-1999).
- Participated in quiz at *Mutation-1999* held at **Hans Raj College**, Department of Botany, University of Delhi. (Jan-1999)
- **Stood 3<sup>rd</sup>** in collage making at *Mutation-1999* held at **Hans Raj College**, Department of Botany, University of Delhi. (Jan-1999)
- Certificate of effort for creating awareness and providing relief to the needy aged by **Help Age India**. (1993)
- Represented my school in zonal level science fair. (1994–1995)
- Participated in Drawing Competition. (Senior Group) (1991)
- Represented my school at festival of **USSR** in **INDIA**.

## COMPUTER AWARENESS

- Working knowledge of Adobe Photoshop, Ms Word, Ms Excel, Ms PowerPoint & Internet applications.

## PERSONAL INFORMATION

Father's Name : Sh. Kamal Narain Sonkar (Retd. IRAS)  
Date of Birth : 30<sup>th</sup> July 1979  
Marital Status : Married

## REFERENCES

1. Professor S.R. Yadav  
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2. Professor C.R. Babu  
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