



University Faculty Details Page on DU Web-site

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ALONGWITH YOUR PERIODIC INCREMENT CERTIFICATE(PIC))

Title	Dr.	First Name	HARISH	Last Name	CHANDRA	Photograph
Designation		ASSOCIATE PROFESSOR				
Department		CHEMISTRY				
Address (Campus) (Residence)		North Campus, University of Delhi, Delhi-110007				
		E-43; Sector-41, NOIDA-201303. U.P				
Phone No (Campus) (Residence) optional		91-011-27666522				
		91-0120-4340639				
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Email		harish14_delhi@yahoo.com				
Web-Page						
Education						
Subject		Institution		Year	Details	
Ph.D		Punjabi University, Patiala		1976	Thesis topic: Photodecomposition of Ethylene Thio-carbonates.	
M.Sc		Lucknow University		1969	Subjects: Chemistry (Physical)	
B.Sc		Agra University, Agra		1966	Subjects: Physics, Chemistry, Maths.	
Career Profile						
Organisation / Institution		Designation		Duration	Role	
D.N.Degree College, Gulaothi.		Lecturer		1969-70	Teaching	
Punjabi University Patiala		Demonstrator		1970-75	Research & Teaching	
-do-		Post-doctoral fellow		1975-77	Research	
Heriot-Watt University, Edinburgh. UK		Leverhulme Visiting Fellow		1977-79	Research & Teaching	
Leicester University, Leicester. UK		Research Associate		1979-81	Research & Teaching	
London University, London.UK		Research Associate		1981-82	Research	
Sussex University, Brighton.UK		Research Associate		1982-83	Research	
Queen's University, Kingston Canada.		Research Associate		1983-84	Research	
Leicester University, Leicester		Visiting Fellow		1984-88	Research & Teaching	
Delhi University, Delhi		Pool Officer		1988-90	Teaching	
North Eastern Hill University		Reader		1990-98(April)	Teaching & Research	
Delhi University, Delhi		Reader		May, 1998-till date	Teaching & Research	
Research Interests / Specialization						
My research interest involves the Study of Single Electron transfer Reactions through the application of ESR and Optical Spectroscopic Techniques applicable to biomolecules. The reactions are initiated by the transfer of a single electron either from biomolecules of interest or from biomolecules to carcinogenic molecules. The free radicals generated are monitored by						

ESR spectroscopy. Same reaction is again repeated in the presence of anti-oxidants. The role of anti-oxidants is studied. At the present moment we are deeply involved in the application of derivative spectroscopy to solve complicated problems through UV_VIS spectroscopy.

Teaching Experience (Subjects/Courses Taught)

1969-70: Physical & Inorganic Chemistry.
 1970-75: photochemistry and Radiation Chemistry.
 1977-81: Lab. Teaching
 1984-90: Lab. Teaching
 1990-98: Spectroscopy, Analytical techniques.
 1998- present: Spectroscopy, Photochemistry, Radiation Chemistry, Thermodynamics, Kinetics

Honors & Awards

1977: Leverhulme Visiting Fellow.
 1995: CEC Fellow

Publications (LAST FIVE YEARS)

Books / Monographs


<u>Year of Publication</u>	<u>Title</u>	<u>Publisher</u>	<u>Co-Author</u>
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In Indexed/ Peer Reviewed Journals

<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>Co-Author</u>
2005	Study of Autoxidation of Ascorbic Acid in Acetonitrile by Electronic Absorption Spectra	Journal of Applied Spectroscopy V.72.N0.2.p274-276.	S.Gupta, S.Kumar
2006	Electronic Spectroscopic Study of self association of L-Ascorbic Acid (Vit C) in Non-aqueous Medium. A new Information.	Journal of Applied Spectroscopy V.73 (2) pp. 263-266.	S.Gupta, S.Kumar
2007	Electronic and Infrared Spectroscopic Studies of Aggregation of Cholesterol	Spectroscopy Letters . 40, 1-8,	S.Gupta, S.Kumar
2008	Synthesis, Characterisation and Biological activity of Schiff Base analogues of Indole-3-carboxaldehyde.	European Journal of Medicinal Chemistry. 43(1) 160-65.	Deepa, Anjani K. Tiwari, Sweta Singh, Gauri Shukla, Pushpa Mishra, Anil K. Mishra.
2008	Polyethylene Glycol conjugates of methotrexate and Melphalan: Synthesis, Characterisation, Radiolabelling and Biological Studies.	Cancer Bio-Therapy and Radio-pharmaceuticals. 23, 5.	Gauri Shukla, Anjani K. Tiwari, Nitin Kumar, Deepa, Pushpa Mishra & Anil Kumar Mishra,
2008	Effect of a Novel Series of Benzothiazolo-Quinazolones on Epidermal Growth factor receptor (EGFR)and Biological Evaluations.	Chemical Biology and Drug Design 72, 533-539	Gauri Shukla, Anjani K.Tiwari, V.K.Singh,Aruna Bajpai, and Anil K. Mishra
	Synthesis and assessment of ^{99m} Tc. Chelate-Conjugated	Cancer Bio-Therapy	Gauri Shukla, Anjani

2009	Alendronate for Development of Specific radiopharmaceuticals.	and radiopharmaceuticals 24, 2,	K Tiwari, Deepa Sinha, Pushpa Mishra, & Anil K. Mishra.
2009	^{99m} Tc-DTPA-Amino Acids Conjugate as Specific SPECT Pharmaceuticals for Tumor Imaging	Chemical Biology and Drug Design , 74(2), pp. 159-164(6)	Deepa Sinha, Gauri Shukla, Anjani K. Tiwari, Shubhra Chaturvedi, Krishna Chuttani, & Anil K. Mishra,
2009	Synthesis and Biological Evaluation of ^{99m} Tc-DTPA-bis(His) as a Potential probe for Tumor Imaging with SPECT	Cancer Biotherapy & Radiopharmaceuticals . 24(5) 615-620	Deepa Sinha, Gauri Shukla, Krishna Chuttani, & Anil Kumar Mishra.
<u>Articles</u>			
<u>Conference Presentations</u>			
<p>1 . UV spectroscopic study of the mechanism of oxidation of VitaminC in non-aqueous phase. Seema Gupta, Sushil Kumar and Harish Chandra</p> <p>ICOB -4 & ISCNP-24 IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications, 26—31 January 2004, New Delhi (India)</p>			
<p>2. Electronic Spectroscopic Study on Cholesterol: A comment on plaque formation</p> <p>Sushil Kumar, Seema Gupta and Harish Chandra</p> <p>ICOB -4 & ISCNP-24 IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications, 26—31 January 2004, New Delhi (India)</p>			
<p>3. Electronic Spectroscopic Studies of Self-Association of Testosterone and Estradiol in Aq. and Non-aq. Media. Sunil Kumar, Shikha Singh, Sujata Devi and Harish Chandra NSC-11, held at NPL, Pune, 2009.</p>			
<u>Total Publication Profile</u>			
Books	Year	Title	Publisher
One	1990.	Carbon, Oxygen and Halogen Centered Organic Cation Radicals	Landolt-Bornstein, New Series II/17h Springer-Verlag; Berlin
			Co-author Martyn C.R.Symons

<u>Articles</u>
<u>Conference Presentations</u> Five
<u>Public Service / University Service / Consulting Activity</u>
<ol style="list-style-type: none"> 1. I have served as member of the Board of Research Studies and again I have been nominated for this body. 2. I have served as member of the Departmental research Council and again I have been nominated for this body. 3. I was Staff Council Secretary for five years. 4. I have served and still serving on many committees e.g., purchase approval committee, Instrument purchase committees etc.
<u>Professional Societies Memberships</u>
Member of the International EPR Society.
<u>Projects (Major Grants / Collaborations)</u>
<ol style="list-style-type: none"> 1. I was awarded a Research project by the Atomic Energy Commission (BRNS), BARC, Mumbai. 2. I was awarded a research project from DST to work on " ESR & Other Spectroscopic Studies of Single Electron Transfer Reactions Using water soluble Anti-oxidant Vitamins".
<u>Other Details</u>



(Signature of Faculty Member)

(Signature & Stamp of Head of the Department)

