DEBASHIS DAS

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EDUCATION

Ph.D Chemistry, August 2001
Northern Illinois University
DeKalb, IL

M. S. Physical Chemistry, December 1992
Ravenshaw College
Cuttack, INDIA

B. S. Chemistry, June 1990
College of Basic Sciences and Humanities
Bhubaneswar, INDIA

AREA OF EXPERTISE

Spectroscopy: Microwave induced plasma (MIP), Inductively coupled plasma (ICP), Flame AA, FTIR, Graphite Furnace Atomic Absorption(GFAA), UV-Vis, Fluorometry
Chromatography: Liquid chromatography (HPLC), Gas chromatography (GC), Solid phase microextraction (SPME)
Mass Spectrometry: Liquid chromatography -Time of flight mass spectrometry (LC-TOF MS), Gas chromatography - mass spectrometry (GC-MS)
Computer related skills:
UNIX, C, Labview, Visual Basic, DBMS/RDBMS (ORACLE), JAVA, HTML

RELEVANT EXPERIENCE

Research Scientist, Endo Pharmaceuticals, Inc., Garden City, NY, 2001-present
Developed and validated analytical HPLC, GC and dissolution methods for IND, NDA and ANDA applications. Prepared analytical reports for the CMC section of the FDA submissions. Prepared SOPs and protocols for various laboratory operations and processes. Served in data review boards (DRB) and specification setting committee. As part of the metrology group I was responsible for timely calibration and maintenance of LC-MS, TGA, DSC, KF titrater and dissolution baths. Trained personnel on Agilent LC and GC systems and SOPs. Administrated the LIMS system and worked along with the IT department to assess the 21 CFR part 11compliance of the laboratory instruments. Attended conferences and workshops on Process Analytical Technology (PAT) for future implementation.

Research Associate, Reedy Scientific Instruments, Bourbannais, IL, 2000–2001
Characterized the GC-MS-matrix isolation IR system. Optimized special optical interface for the IR system for matrix isolation sampling. Designed software for background correction of the IR spectrum. Currently involved in analysis of volatile organic compounds (VOCs) in water samples using solid phase microextraction (SPME)-GC-MS-IR

Doctoral Research, Department of Chemistry and Biochemistry, Northern Illinois University, 1996-2001
Area of research: Analytical Spectroscopy, Atomic Spectroscopy, Mass spectrometry and Liquid Chromatography
Designed and carried out experiments for microwave induced plasma diagnostics. Examined potential application of MIP - atomic emission spectroscopy (AES) and Time of flight mass spectrometer (TOF MS) as detectors for liquid chromatographic (LC), for separation and detection of nonmetals in pharmaceutical and biologically active compounds. Trained undergraduates and directed undergraduate research.

Research Fellow, Regional Research Laboratory, Bhubaneswar, India, 1994-1996
Worked in project entitled " Studies on pollution due to alum sludge and development of methods for its utilization", funded by Ministry Of Environment And Forest, New Delhi, India.
Collected and prepared samples, developed methods for analysis of alum sludge and for preparation of titanium dioxide enriched sludge, for use as a pigment. Prepared reports and trained personnel in the laboratory.

CONFERENCE PRESENTATIONS

"Isomer Discrimination on a GC with SPME Sample Introduction and Parallel MS and IR Detection", G. T. Reedy, Reedy Scientific Instruments, F. Keith Lalone, Debashis Das, Paper #1147, Pittcon, New Orleans, LA, 2001

"He-MIP-AES HPLC Detection of Biologicals and Pharmaceuticals Utilizing Membrane Desolvation", D. Das, J. W. Carnahan, Poster #1926P, Pittcon, New Orleans, LA, 2001

"Membrane desolvator - Helium microwave induced plasma AES for reverse phase HPLC detection", D. Das, J. W. Carnahan, Paper # 655, The 27th Annual Conference of the Federation of Analytical Chemistry and Spectroscopy Societies, Nashville, TN, 2000

"He Microwave induced plasma atomic emission spectroscopy as detector for HPLC", D. Das, J. W. Carnahan, Society for Applied Spectroscopy Chicago Section Poster Night, Poster # 17, Chicago, IL 2000

"Membrane desolvation for HPLC - He - MIP – AES", D. Das, J. W. Carnahan, Paper # 441, The 26th Annual Conference of the Federation of Analytical Chemistry and Spectroscopy Societies, Vancouver, B.C., 1999

"Membrane desolvator for HPLC atomic emission spectroscopy", D. Das, J. W. Carnahan, Society for Applied Spectroscopy Chicago Section Student Night, Paper # 2, Chicago, IL 1999

"Membrane desolvator for atomic emission spectroscopy (AES)", D. Das, J. W. Carnahan, Society for Applied Spectroscopy Chicago Section Poster Night, Poster # 4, Chicago, IL 1998

"Development of process for titaniumdioxide enrichment of Alum sludge", D. Das, R. S. Thakur, S. N. Das, Orissa Chemical Society Annual Conference, Paper # 20, Bhubaneswar, India 1995

PATENTS AND PUBLICATIONS

"Moderate volatility analyte transport behavior with membrane desolvation reversed-phase liquid chromatography-helium microwave-induced plasma atomic emission spectroscopy", D. Das, J. W. Carnahan, Analytica Chimica Acta, 444 (2001) 229-240

"Mixed organic solvent transport using ultrasonic nebulizers (USN) for reverse phase LC – plasma atomic emission spectroscopy (AES) applications", D. Das, J. W. Carnahan, Analytical Chemistry, filing in process

"Method for preparation of titanium enriched residue suitable as a pigment from alum sludge", S. B. Rao, R. S. Thakur, S. N. Das, J. Pradhan, D. Das, J. Das (investigators for Council of Scientific and Industrial Research, India), Process filed for Indian patent

AWARDS, MEMBERSHIP AND COMMITTEES

Analytical Student of the year 2000, Society for Applied Spectroscopy, Chicago Section
American Association for Pharmaceutical Scientists, September 2002-present
Governing Board, Society for Applied Spectroscopy, Chicago Section, June 1999-2001
American Chemical Society, Rock River Section, November 1999-present
Sigma Xi, NIU Section, March 2000-present
Safety Officer, Department of Chemistry and Biochemistry, Northern Illinois University, July 1999-2000
Graduate Colloquium Committee, Department of Chemistry and Biochemistry, Northern Illinois University, July 1999-2000

REFERENCES

Available upon request