

CURRICULUM VITAE of **Professor (Dr.) N. N. Maldar**

A-1. Qualifications and Experience:

Name & Qualifications : Prof. (Dr.) N. N. Maldar.
M.Sc., Ph. D.; FMASc.

Date of Birth (Age) : November 16, 1953 (58 years).

Nationality : Indian.

Designation : Professor. (Since **1989**; **23 years**)

Address : School of Chemical Sciences
Department of Polymer Chemistry,
Solapur University,
Kegaon, SOLAPUR – 413 255. (India).
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SOLAPUR – 413001. (India).

A-2. Higher Academic Degrees conferred (Bachelor's Degree onwards):

Degree	Subject	Year	University / Institute	Marks / Rank
B. Sc.	Chemistry	1974	Shivaji University, Kolhapur.	79 % , first
M. Sc.	Chemistry (Organic)	1976	Shivaji University, Kolhapur.	75 % , first
Ph. D.	Chemistry (Polymer) #	1981	University of Pune.*	Awarded
# Title of the Ph. D. Thesis: “Studies in (I) Vulcanization of rubber and (II) Synthesis of Diamines and Polyimides.”				
* Research performed at the Division of Polymer Chemistry, National Chemical Laboratory, Pune.				

A-2.1 Other:

- i) Certificate course in Japanese Language. (University of Pune, 1979).
- ii) Lower Diploma course in Japanese Language. (University of Pune, 1980).
- iii) Advanced course in Japanese Language. (Osaka University for Foreign Language studies, Japan; 1982).

A-2.2. Research and Teaching experience (in chronological order):

Sr. No.	Position	Institution	Duration	Nature of job
i)	JRF / SRF / PDF (CSIR)	National Chemical Laboratory, Pune – 411008, India. (CSIR)	Dec. 1976- March 1982	Research
ii)	Post-doctoral Fellow (MONBUSHO, Govt. of Japan)	Tokyo Institute of Technology, Ookayama, Tokyo –152, Japan.	April 1982- March 1984	Research
iii)	Research Associate (CSIR)	National Chemical Laboratory, Pune – 411008, India. (CSIR)	April 1984- Sept. 1984	Research
iv)	Post-doctoral Research Fellow	Southern Methodist University, Dallas, USA.	Oct. 1984- Sept. 1985	Research
v)	Post-doctoral Research Fellow	University of Arizona, Tucson; USA.	Oct. 1985- July 1987	Research
vi)	Scientist (CSIR)	National Chemical Laboratory, Pune – 411008, India. (CSIR)	July 1987- Sept. 1989	Research
vii)	Professor	i) Department of Chemistry, Shivaji University Post Graduate Center, Solapur and	Sept. 1989- Till date	Teaching & Research, Adminstrati on

		ii) Department of Chemistry, Solapur University, Kegaon, Solapur. 413 255.		
viii)	Director	Shivaji University, Center for Post- Graduate Studies, Kegaon, Solapur. 413 255.	01-10-2002- 31-07-2004	Teaching & Research, Administrati on
ix)	I/C Director, BCUD	Solapur University, Solapur. Kegaon, Solapur. 413 255.	01-08-2004- 07-10-2004	Teaching & Research, Administrati on
x)	Director, BCUD	Solapur University, Solapur. Kegaon, Solapur. 413 255.	11-09-2007- 26-11-2007	Teaching & Research Administrati on,
xi)	Ag. Vice- Chancellor	Solapur University, Solapur. Kegaon, Solapur. 413 255.	11-09-2007- 26-11-2007	Teaching & Research, Administrati on
xii)	Visiting Professor	Hanyang University, Seoul, Republic of Korea.	20-03-2009- 08-06-2009	Teaching & Research

A-2.3 Honors and Awards:

- i) Secured “College Merit Scholarship” (1971-1974).
- ii) First Rank in B. Sc. (Chemistry) examination at Rajaram College, Kolhapur.
- iii) Awarded, “Government Daxina Fellowship” (1974-1976).
- iv) Secured “National Merit Scholarship” (1974-1976).
- v) First Rank in M. Sc. (Chemistry) examination at Shivaji University, Kolhapur.
- vi) Junior Research, Senior Research and Post-Doctoral Research Fellowship of CSIR, New Delhi, (1976-1982).

- vii) MONBUSHO Fellowship, Government of Japan, at Tokyo Institute of Technology, Tokyo; Japan. (1982-1984).
- viii) Visiting Professor at Hanyang University, Seoul. (2009).
- ix) “Best Teacher Award” on the occasion of ‘Teacher Day’ given by ROTARY CLUB OF SOLAPUR MIDC; 05th September 2010.
- x) “AADARSH SHIKSHAK PURSAKAR” -2010, given by Lions Club Solapur, Mid-Town; 12-09-2010.
- xi) “Bharat Jyoti Award” by IIFS, New Delhi; Certificate of Excellence for; Meritorious Services, Outstanding Performance, Achievements, Contributions and Remarkable Role. 27th March 2012.

A-2.4 Teaching Experience (Post Graduate Level): 25 Years: (1987-2012 i.e. till date).

A-3. Research Experience: 35 Years: (1976-2012 i.e. till date).
(5 Years Pre-Doctorate **and** 30 Years Post-Doctorate).

Research Guidance:

Publications in National and International Journals: Total 136. (**Annexure-I**)

Patents: 07; Paper Published: 51; Paper Presented: 78.

The research papers have been published in well reputed international journals with good impact factors and many of these publications are extensively cited (**Total Citations are 679; the “h” factor is 13; and the Impact Factor is 94**).

Current Research Interests: Polymer Syntheses / modifications / characterization, High performance Engineering Plastics, Organic chemistry, monomer synthesis, Spectroscopy, Utilization of renewable resources (CNSL), Value added products, Carbon Nano-materials, Chemistry of Medicinal natural products, Organic and Hybrid solar cells, Nano-scale fabrication, polymers for specific applications such as Fuel Cell, Desalination membranes, drug delivery system. Polymer Nano-composites, Bio-Nano-composites, Biodegradable polymers, Liquid-Crystal Polymers, Fire retardant polymers etc.

A-4 Administrative Experiences:

- 1. Professor and HOD in a University:** Department of Chemistry, Shivaji University Post Graduate Center, Solapur and Department of Chemistry, Solapur University. (1989-2001; 2004-2007) **Fifteen years.**
- 2. Director:** Shivaji University Center for Post-Graduate Studies, Kegaon, Solapur. 01-10-2002 to 31-07-2004; **Two Years.**
- 3. I/C Director, BCUD:** Solapur University, Solapur, 01-08-2004 to 07-10-2004, **Three Months.**
- 4. Ag. Vice-Chancellor:** Solapur University, Solapur, 11-09-2007 to 26-11-2007, **Two Months.**
- 5. Director, BCUD:** Solapur University, Solapur, 11-09-2007 to 26-11-2007, **Two Months.**
- 6. Professor:** Department of Chemistry, Shivaji University Post Graduate Center, Solapur (1989 to 2004) and Department of Chemistry, Solapur University. (2004-tilldate-2012). **Twenty-three years.**

A-5. Number of research projects completed: Four.

- 1) Aromatic polybenzimidazoles for use as Reverse Osmosis membranes. (BRNS sponsored).
- 2) Novel biopolymers containing mesogenic side groups. (DST sponsored).
- 3) New thermally stable and processable polyamide / polyester polymers containing pendent phenyl and main frame thioether / sulphone groups. (UGC, New Delhi sponsored).
- 4) Development of Atomic Oxygen and Vacuum Ultra-Violet Radiation Resistant Polyimides. (ISRO, HQ- Bangalore sponsored).

A-6. Number of International Conference attended (Held outside the country):

Twelve. [Japan, USA, S. Korea, Geneva-Italy]

A-7. Organizing / Advisory Committee Member of Various Seminars and Conferences:

- a) Workshop on “Potential and Opportunities for Development of Plastic Industries” - 1991; Shivaji University P. G. Centre, Solapur.
- b) National Symposium on “Frontiers in Organic Chemistry” - 2002, Shivaji University, Kolhapur.
- c) An International Symposium on “Drug Discovery and Process Research” DDPR - 2003, Shivaji University, Kolhapur.
- d) National Conference on “Recent Trends in Synthetic Organic Chemistry”, RTSOC – 2005, North Maharashtra University, Jalgaon.
- e) Workshop on “Microscale Techniques in Chemical analysis”-2006, Barshi.
- f) Awareness Workshop of UGC-DAE Consortium for Scientific Research, Solapur University, Solapur.
- g) Recent Trends in Industries and Chemical education (RTICE – 08) , KBP College Vashi, Navi Mumbai.
- h) UGC Sponsored National Conference on “ Recent Advancements in Studies of Metal Complexes” Science College, Nanded.
- j) National Conference on “Development Analysis of Drugs” (DAD-08), North Maharashtra University, Jalgaon.
- k) Fourth Conference on Recent Advances in Polymer Technology, North Maharashtra University, Jalgaon, March 2012.
- l) National Seminar on Advances in Polymeric Materials, Sri Krishnadevaraya University, Anantapur (A. P.); March 2012
- m) One day National Symposium on Advances in Materials Science, Gulbarga University, Gulbarga (K. S.); April 2012; **And many more....**

- n) **17th International Conference on “Expanding Horizons in Chemical and Biological Sciences: Innovative Crossroads”-ISCBC-2012 at Solapur University, 21-24 January 2012. [Worked as ‘Co-Ordinator’]**

A-8 i) Resource person for UGC Sponsored Refresher Courses in Chemistry organized by Shivaji University, Kolhapur; Dr. BAM University, Aurangabad; SRTM University, Nanded; RSTM Nagpur University, Nagpur; Mysore University, Mysore; Gulbarga University, Gulbarga; Goa University, Goa; and S.K. University, Anantapur.

B-1. Experience of working on the Statutory Authorities of University:

i) Senate:

Shivaji University, Kolhapur. (1991-1992).

ii) Faculty of Science:

a) Shivaji University, Kolhapur.

b) University of Pune, Pune.

iii) BCUD Committee, Solapur University.

(Nominated by Academic Council).

iv) Board of University Teaching and Research:

a) Solapur University, Solapur. (2004-2007).

b) Shivaji University, Kolhapur. (1989-2004).

v) Research and Recognition Committee:

a) Solapur University, Solapur.

b) Shivaji University, Kolhapur.

c) Dr. BAM University, Aurangabad.

d) North Maharashtra University, Jalgaon.

e) Dr. BAM University, Aurangabad-

Inter Disciplinary Board in Chemistry (2012-2015).

vi) Board of Studies, in Chemistry:

a) Solapur University, Solapur. (2005-2009).

b) Shivaji University, Kolhapur. (1996-1999; 2005-2008).

& Shivaji University, Kolhapur. ; Industrial Chemistry (2009-2011).

c) University of Pune (Polymer Science: 1994-2000, 2004-2007).

d) Gulbarga University, Gulbarga. (1998-2001; 2004-2007).

e) Mysore University, Mysore. (1999-2002).

f) Shri Krishna Devaraya University, Anantpur (AP). (2001-2003).

- g) Vijayanagara S. K. University, Bellary (KS). (2011-2014).
- h) Swami Ramanand Teerth Marathawada University, Nanded. (2012-2014)
- vii) 'Board of Studies Material Science: Gulbarga University. (2004-2007).
- viii) 'Doctoral Committee' in Chemistry, Gulbarga University. (2006-2009).

B-2. i) Co-Ordinator for the visit of National Assessment & Accreditation Council [NAAC] Committee to Shivaji University P G Center, Solapur and received "B+" Grade to the Institute. Familiar with the preparation of documents / strategies, presentation of future plans and discussion on developments. Worked as a VC-nominated member on the 'Internal Quality Assurance Cell (IQAC)' of the Shivaji University to put efforts towards the prosperity of the University.

B-2 ii) Co-Ordinator for the visit of 'UGC-X Plan Review Committee to Shivaji University P G Center, Solapur and received copious Grants for the Centre. Member, Committee for Proposal to UGC for strengthening future developments of the Solapur University and VISION -2020 of the Solapur University.

B-2. iii) Member, Criterion wise Task Force of 'Quality Advisory Council'-QAC; of the Shivaji University, for NAAC follow-up of documents / strategies, future plans and developments towards Annual Action Plan..

B-2 iv) Peer-Reviewer / Referee for Various Scientific Journals:

- a) Journal of Applied Polymer Science. John Wiley & Sons, USA.
- b) E Polymers. European Polymer Federation
- c) Journal of Polymer Materials: An International Journal.
- d) Polymer International. Wiley
- e) Thermochemica Acta. Elsevier
- f) Indian Journal of Engineering and Material Sciences.
- g) Journal of Thermal Analysis and Calorimetry. Springer
- h) European Polymer Journal. Elsevier
- i) Editorial Board of Journal of Shivaji University (Science and Technology), Vol. 37, 38, 39, and 40.

B-2 v) Examiner for various Universities (for Post-Graduate Courses):

- i) Solapur University, Solapur.
- ii) Shivaji University, Kolhapur.
- iii) University of Mumbai, Mumbai.
- iv) University of Pune, Pune.
- v) Swami Ramanand Teerth Marathwada University, Nanded.
- vi) Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- vii) Rashtra Sant Tukadoji Maharaj Nagpur University, Nagpur.
- viii) Sant Gadge Baba Amaravati University, Amaravati.
- ix) Gulbarga University, Gulbarga. (K. S.)
- x) Mysore University, Mysore. (K. S.)
- xi) Shri Krishna Devaraya University, Anantapur. (A. P.)
- xii) Kakatiya University, Warangal. (A. P.)
- xiii)** Nagaland University, Medziphema. (Nagaland)

B-2 vi) External examiner for Ph. D. thesis (Total: 94) of different universities namely, University of Mumbai; University of Pune; Dr.BAM University, Aurangabad; SRTM University, Nanded; NM University, Jalgaon; Sant Gadge Baba Amravati University, Amravati; RSTM Nagpur University, Nagpur; Institute of Chemical Technology [Deemed Univ], Matunga-Mumbai; Goa University, Goa; S.K. University, Anantapur (AP); Kakatiya University, Warangal; Mysore University, Mysore; Osmania University, Hyderabad; Sardar Patel University, Anand; MG University, Kottayam; University of Kerala, Thiruvananthapuram; Rani Durgawati University, Jabalpur; Kuvempu University, Shimoga, Anna University, Chennai; Bharathidasan University, Tiruchirappalli.
(Annexure-II)

B-2 vii) Associated with the examination work of **Maharashtra Public Service Commission, Mumbai.**

B-3. Guiding Ph. D. students:

1. Number of Ph. D. Students guided: **Ten.**
(Number of Ph. D. Students submitted 'Synopsis of Thesis': **Four.**)
2. Number of Ph. D. Students Working: **Eight.**
3. Number of M. Phil. Students guided: **Six.**
4. Number of M. Sc. (by research, T & D) Students guided: **One.**
5. Number of M. Sc. (Polymer Chemistry and Organic Chemistry) course students guided for research Project: **Forty-nine.**

B-4 Academic Collaborations:

- i) Institute of Science, Mumbai.
- ii) National Chemical Laboratory, Pune.
- iii) SRTM University, Nanded.
- iv) Gulbarga University, Gulbarga.
- v) S. J. College of Engineering, Mysore.
- vi) Pandit Deendayal Upadhyay Dental College, Solapur.
- vii) Nabira Mahavidyalaya, Katol, Nagpur.
- viii) Vikram Sarabhai Space Centre, Trivendrum.
- ix) Nano-Technology Research Centre, Birla College, Kalyan; and N. S. N. Research Centre for Nanotechnology & Bionanotechnology, SICES College, Ambernath. [With Emeritus (CSIR) and Adjunct Prof. M. Sharon, I.I.T. Mumbai]
- x) Hanyang University, Seoul, Republic of Korea.

Industry Interactions:

- i) Smruthi Organics, Chincholi MIDC, Solapur.
- ii) Vamsi Laboratories Ltd., Chincholi MIDC, Solapur.
- iii) The Customs and Excise Department, Solapur.
- iv) VIJET Products, Vishal sales Corporation, Ichalkaranji.
- v) Padmalaya dye-Chem Corporation and Textile Processing, Solapur.

C-5 (iii) Member of the Professional Bodies:

- * Society of Polymer Science, Japan (1982-84)
- * American Chemical Society, USA (1984-87)
- * Polymer Chemistry Division, ACS, USA. (1984-87)
- * Indian Chemical Society, Kolkatta, India (Life)
- * Indian Society of Polymer Science, Pune (Life)
- * The Society for Polymer Science, India (Life)
- * Material research Society of India, Hyderabad (Life)
- * Indian Plastics Institute, Mumbai (Life)
- * Indian Membrane Society, Vadodara (Life)
- * Indian Science Congress Association, New Delhi (Life)
- * Marathi Vidgyan Parishad, Mumbai (Life)
- * Indian Desalination Association, BARC, Mumbai. (Life)
- * Chemical Research Society of India, Bangalore (Life)
- * NCL Research Students Alumni, Pune (Life)
- * MONBUSHO Scholar Association of India, New Delhi (Life)
- * **Fellow, MAHARASHTRA ACADEMY OF SCIENCES** (Life)
- * Chemistry Teacher Association (Life)
- * Marathi Rasayanshastra Parishad, Maharashtra (Life)
- * Divisional Seminar Secretary, Polym. Chem. Divn.; NCL. (1987-89).