# **Curriculum Vitae**

Name : Prof. G. N. MEHTA

Date of Birth : 19<sup>th</sup> Sept, 1945

Religion : Hindu,

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Place of birth : Anida (Bhalodi), Taluka : Gondal Dist: Rajkot Gujarat State. India Address : 14, Atman , Ravishankar Sankul, Bhatar Char Rasta, SURAT-395 017.

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**Positions Held: 1 Associate Lecturer** in Chemistry (16.7. 68 - 28.6.74) **06 Yrs** 

**2 Lecturer** in Chemistry (29. 6.74- 21.8. 88) **14 Yrs** 

**3 Assistant Professor** in Chemistry (22.8.1988-31.05.2000)) **12 Yrs** 

**4 Professor** in Chemistry (01-06-2000 – contd.) **09 Yrs** 

Also acted as a. In Charge, Head, Chem Engg Deptt (Oct, 1997-to Oct, 2002) 05 Yrs

b. Head, Applied Sciences & Humanities Deptt (Nov,1998-2006) 08 Yrs

c. Dean, Post Graduate Programme, (2005-2007) 02 Yrs

At S VRegional College of Engg & Tech, Surat- 395 007, now SV National Institute of Technology-(SVNIT)- Surat-395007- Central Govt. Funded Institute of National Importance,

(Total 41 years of service at this college/institute after M Sc.)

**Teaching Experience:** 41 Yrs, UG: BE-I/B. Tech-I, B E-II / B. Tech-II (Chem. Engg.), M. Sc.(Org & Anal. Chemistry), 5-Yrs Integrated M. Sc. (Chemistry)

25 Yrs, PG, Organic & Analytical Chemistry, Now Vir Narmad South Gujarat, University, Surat,

#### **Qualifications:**

- 1 B Sc, First Class, Chemistry (Special), Gujarat University, Ahmedabad, 1966
- 2 M Sc, First Class, Organic Chemistry, Gujarat University, Ahmedabad, 1968
- 3 M Phil., "Corrosion of mild steel in aqueous environments- Study of passivity by LPR Tech, (Dr T P Sastry) SG Uni, Surat, 1977. (Refree: Prof K I Vasu)
- $\mathbf{4}$   $\mathbf{Ph}$   $\mathbf{D}$ , Electrochemical techniques for the study of passivity & evaluation of

inhibitors, South Gujarat University, Surat, 1980 (Guide: Prof T P Sastry)

(Refrees: Prof Louis E Toth , Chem Engg & Mat. Sci. Dept, Univ. of

Minnesota, USA, & Prof. Somnath Misra, Principal, REC, Rourkela)

5 International P G Diploma in Chemistry & Chemical Engineering, from Tokyo Institute of Technology, (TIT) Japan (October,1979- September,1980), Organized by Tokyo Institute of Technology and The Japanese National Commission for UNESCO, sponsored by The Japanese Government and UNESCO. Title of Dissertation- 'Impedance Technique to study corrosion of Iron & Steel'

(SupervisingTeacher: **Prof. Shiro Haruyama**, Head, Met.Engg Dept,TIT, Japan)

**Research experience: 34** Years in the field of Electrochemical/ Impedance techniques for corrosion of mild steel in acids and evaluation of inhibitors and study of passivity in aqueous environments and corrosion of steel in concrete/s and its control.

25 Yrs, as Research Supervising Teacher (Guide) in Corrosion and its Control.

2 M Phils & 7 PhDs awarded. 5 Ph D students are working. As External Ph D Examiner—9 Theses evaluated

#### List of Ph D Awardees:

NAME OF	TITLE OF THE THESIS	YEAR OF
STUDENTS		PASSING
S J Zakvi	Application of electrochemical techniques to improve	January,
	production of Glycerophosphates and to study related	1989.
	corrosion problems	
A B Patel	DC Polarisation methods to study effect of time	January,
	oxygenation, ethylene glycol, Sodium nitrite, Sodium	1996.
	benzoate and commercial engine coolants on corrosion of	
	mid steel in aqueous solutions.	
M. H. Desai	Evaluation of nitrogen and sulphur based organic	July, 1997.
	compounds and some herbal extracts as inhibitor for acid	
	corrosion of mild steel by electrochemical techniques.	
M J Sanghvi	Development of some bio-degradable less toxic inhibitors	July, 1999.
	for corrosion of mild steel in 5% hydrochloric acid at	
	elevated temperature by weight loss DC polarisation	
	techniques.	
S Verma	Corrosion of mild steel in stagnant acid at an ambient	March,
	temperature and its inhibition study of ecofriendly inhibitor	2000.
	by electrochemical polarisation techniques.	
J R Patel	Evaluation of some additives as inhibitors for chloride	August,
	induced corrosion of mildstee bass embedded in concrete.	2002.
M. Kalpana	Study of effect of Herbal Extract on acid corrosion of mild	May, 2003.
	steel by DC polarisation methods.	

Papers Published in 18 National & 41 International Journals/ Conference Proceedings

**Papers Presented** in 24 National & 37 International Conferences

#### **Research Awards:**

- # UNESCO Fellowship for advanced Research Training in corrosion at Tokyo Institute of Technology, Tokyo (Japan), during October, 1979 to September, 1980 for one year.
- # First IIM K K Award, on 06 <sup>th</sup> Feb., 2000 by Indian Institute of Metals, Baroda Chapter for selfless contribution in the field of Metals and Corrosion.
- # Life Time Achievement Award from President, National Association of Corrosion Engineers (NACE), Houston, Texas, USA on 28<sup>th</sup> Nov, 2001 at Taj Residency, Bangalore, for noteworthy contribution in the field of corrosion and corrosion awareness. The prestigious award in Silver Plaque with the Citation was offered through nomination by NACE- International India Section, Mumbai.

Prize Cash Prize for the best paper "Evaluation of phenothiazines as acid corrosion inhibitors for mild steel by electrochemical techniques" published in **Boshoku Gijutsu** (Corrosion Engg) Vol. **29** (1980) pp223-26, Sardar Patel University, Vallabh Vidhyanagar, by **Hari Om Ashram prerit Bhaikaka Inter-university smarak trust(1980).** 

#### **Refresher Courses attended:**

- 1 Coal Based Chemicals and Fertilizers, ISTE Winter School, 12<sup>th</sup> -24<sup>th</sup> Dec., **1977** at Dept of Chem Engg., Regional Engineering College, **Rourkela.(2 Weeks)**
- 2 Corrosion and its Control, QIP, 2<sup>nd</sup> -21<sup>st</sup> May, 1977, **IIT, Mumbai** (3 Weeks).
- 3 ISTE 'Industrial Exposure to Chem Engg Teachers', **IPCL**, 16-25 th May, 1988 (1 Week).
- 4 ISTE Summer School 'Corrosion & its Control', Coimbtore Inst. of Tech, Faculty of Chemistry, **Coimbatore**, 5-17 th June, 1989 (2 Weeks)
- 5 Computer Seminar on 'Fortran and Cobol' Fijutsu Inst of Computer Science, **Tokyo**, 21<sup>st</sup> Feb.,- 27<sup>th</sup> March, 1980 (3 Months)
- 6 Basic German Language 1 year course, S G Uni., Surat, 1972-73.
- 7 ISTE 'Computer Aided Colour Measurements and Matching for Industrial products, Dept of Physics, **SVRCET**, **Surat** 25 <sup>th</sup> June to-7 <sup>th</sup> July, 1990 (2 Weeks).
- 8 ISTE 3 Days Training program on Industry institute partnership, 10<sup>th</sup> -12 <sup>th</sup> March, 1995, **SVRCET**, **Surat.**
- 9 Two Computer courses at Computer Engg. Department, **SVRCET**, **Surat**.
- 10 Experts Workshop on 'National Board of Accreditation' organized by AICTE, New Delhi at **SVRCET**, **Surat**, diring 21<sup>st</sup> to 22<sup>nd</sup> April, 2000.
- 11 Management Capacity Development Programme for Senior Faculty, 14-15 <sup>th</sup> March, 2008, Under Networking Programme of Technical Education Quality Improvement Programme organized by Effective Quality Upgradation Assistance for Technical Education, New Delhi at **SVNIT**, **Surat**.
- 12 AICTE Staff Induction Programme organized by Enterpreneurship Development Cell, SVRCET, Surat, during 17<sup>th</sup> July to 4<sup>th</sup> August, 2000.
- 13 National Workshop on Advanced Techniques for Corrosion Studies organized by National Corrosion Council in collaboration with CECRI & Dept of Industrial Chemistry, Alagappa Uni, Karaikudi from 5<sup>th</sup> to 7<sup>th</sup> Jan, 2006.
- 14 Recent Developments and Future Trends of nanotechnology in Modern Science, 21<sup>st</sup> to 25<sup>th</sup> Dec, 2009 at Applied Chemistry Department, S V National Institute of technology, Surat.

#### **National and International Conferences attended:**

- National Seminar on Advanced Technology for Water and Waste Treatment, 11<sup>th</sup> Dec, 1999 on the occasion of Silver Jubilee Celebration for P G Centre in Env Engg, Civil Engg Dept, SVRCET, Surat.
- National Conf "BIOCON 2005'-Emerging Trends in Biomedical Engg, 15<sup>th</sup>-16<sup>th</sup> Sept, 2005 by Dept of Electronics, Electrical IT and Computer Engg at Bharati Vidyapeeth Deemed Uni. College of Engg, Pune.
- 3 National Coference on Environment and Chemistry, 29<sup>th</sup>-30<sup>th</sup> Nov, 2008, Dept of Chemistry, Arts, Science & Commerce College, Kholwad, Surat.
- 4 International Conference on Molecules to Materials(ICCM-2006), 3<sup>rd</sup>-4<sup>th</sup> March, 2006 at Sant Longowal Institute of Engg & Tech, Longowal, Sangrur, Punjab (India).
- 5 International Conference on Corrosion (CORCON 2005) 28<sup>th</sup>-30<sup>th</sup> Nov, 2005, Chennai by NACE International India Section, Mumbai.
- 6 International Conference on Corrosion (CORCON 2007) 28<sup>th</sup>-30<sup>th</sup> Nov, 2007, Mumbai by NACE International India Section, Mumbai.

# **Research Projects:**

In 1977-79, "Study of corrosion inhibitors by transient linear polarisation and electrochemical techniques", Ministry of Education & Social Welfare, Dept of Education,

- GOI, New Delhi, Co-investigator with Prof. T P Sastry, HOD, Chemistry Dept, SVRCET.
- Under **Industry-Institute** Interaction, a joint project on Synthesis & Application of industrial Inhibitors sponsored by R & D Centre, Gujarat Alkalies & Chem. Ltd., Dist. Baroda (Jan, **1994 to** Dec, **1998**) & Ph D Degrees awarded to GACL staff Mr M J Sanghvi in 2000. & Mr J R Patel in 2003.
- Joint research project "Standardization of Paints and their compatibility in GSFC Environments" at the Research Center, **Gujarat State Ferilizers Co**, Baroda (8-31st Aug, **1988**) by DC Electrochemical and AC Impedence methods and suggested appropriate paint systems.
- MHRD grant of Rs. 5 lakhs (March,1998) for "Study of steel Corrosion in some concretes and its control by electrochemical potentials, DC polarisations & AC impedance measurements" to work at R & D Centre, GACL, Baroda & at SVRCET, Surat was surrendered due to paucity of funds.

# **Memberships:**

- 1 Life Fellow and now Chartered Chemist of Institute of Chemists, Calcutta, FIC.
- 2 Life Fellow, Electrochemical Society of India, IISc, Bangalore, FECSI.
- 3 Life Member, Indian Soc of Tech Education, New Delhi, LMISTE.
- 4 Life Member, Indian Soc of Anal Scientists, BARC, LMISAS.
- 5 Life Member, Mombusho Scholars Association India, New Delhi, LM MOSAI.
- 6 Hon. Member, Metal Finishers' Association of India, Mumbai, HMMFAI.
- 7 Life Fellow, Indian Council of Chemists, Agra, FICC.
- 8 Life Member, Indian Institute of Metals, Calcutta, LMIIM.
- 9 Life Member, Bio-Electrochem Soc of India, TIFR, LMBES(I).
- 10 Life Fellow, The Society for Advancement of Electrochemical Science and Technology, Karaikudi, LFSAEST.
- 11 Life member, Bioinformatics Society of India, Noida, New Delhi

#### Extra & Co-Curricular Activities:

Worked as faculty representative member of BOG, as a member of Library Committee, Time table Committee, Academic council, Committee Member of Debating & Literary Society, Magazine & Admission work & as a Co-ordinator of Practical Exams of BE- I (Sems-I /-II), arranged lectures of experts in Corrosion & Chem. Engg, helped in Educational Tours, Training & project work to the students of Sem-VI of Chem. Engg. Worked as a Chairman of Students' Welfare & Finance Committee & also Election of Students' Council, Sept, 1998. Assisted M Phil, Ph D, ME students of other colleagues. Attended emergencies like strikes, students unrest/ragging. Also instrumental in activity for developing Infrastructures, Teaching and Examination Schemes, Syllabi of Five Years Integrated M. Sc. Programmes in Chemistry, Physics and Mathametics and for research (Ph D) students and faculties. SVNIT is the first NIT to offer such 5-Yrs Integrated Programmes. Acted as Members and Chairmans of various Departmental and Institutional Purchase Committees.

Responsible to initiate and organize the **Ninth National Convention of Electrochemists(NCE-IX)** at SVRCET, Surat in collaboration with CECRI & SAEST, Karaikudi on 26-27<sup>th</sup> September, 1999 and Technical Education Quality Improvement Programme- Short Term Training Programme on"Recent Trends in Corrosion Science, Technology, Monitoring and Control" during 25<sup>th</sup>-29<sup>th</sup> Dec, 2007 at SVNIT, Surat. Secretary, SAEST Surat Chapter. Also instrumental in activity for UPDATING THE NATIONAL CORROSION MAP OF INDIA, in collaboration with CECRI and National

Corrosion Council of India. Nominated as **Chairman of Corrosion group** of the **SAEST**, Karaikudi for 2001-02 and 2002-03 (2 years). Acted on National Advisory Committee of VII <sup>th</sup> International Symposium on Advances in Electrochemical Sciences and Technology, Nov,2002 (Chennai) organized by SAEST, CECRI, Karaikudi, and also in 40<sup>th</sup> NMD /56<sup>th</sup> ATM and International Symposium on .Metals/ alloys for Chemical processing Industries, at Vadodara from 14-17<sup>th</sup> Nov, 2002 organized by IIM, Kolkotta and IIM Baroda Chapter. Member National Organizing Committee, 11<sup>th</sup> National Congress on Corrosion Control, 17-19<sup>th</sup> July, 2003, Vadodara, Organizers- NCCI, CE CRI, Karaikudi.

# **Professional Experience:**

- 1 Chemical Testing: Principal Investigator in Chemical/Corrosion Testing (since 1981). 27 yrs
- 2 Consultancy: Provided complimentary technical advices to various industries.

  A consultancy work was completed on electropolishing of SS 316L

  Used as coronary stent now commercialised at drastically reduced cost of Rs. 25,000 only by M/S Sahajanand Technologies, Surat.
- **3** As In charge of **Centre of Excellence** in Corrosion and its Control, **Potentio-galvano-scan**, **PGS-81** and AC Impedance Spectroscopy equipment were imported from USA and updated facilities for corrosion testing.
- 4 Expert Evaluator of DST Project proposed by REC, Warangal.

# **Expert Lectures Delivered:**

- 1) Electrochemical Techniques for Corrosion Monitoring, Dept of Applied Chemistry, Institute of Technology., BHU, Varanasi, March 27 <sup>th</sup>, 1989.
- 2) Impedance & electrochemical techniques to view surface phenomena under corrosion and its control, Research Centre, GSFC, Baroda (18 th March, 1988)
- 3) Corrosion prevention & control, Polytechnic, Tajpor-Bujarang (30 th Jan, 1999).
- 4) Basic aspects of Corrosion of Steel in Concrete and its Control in Concrete" in AICTE Summer School, at Applied Mechanics Department SVRCET, Surat. (June-2000)
- 5) Control of Scale and Corrosion in flat plate collectors in AICTE/DST Summer School at Mech. Engg Dept. SVRCET, Surat June-2000.
- **6) Corrosion prevention & control** to final year Engg. students(All branches) at SVMIET, Bharuch, March,1999.
- 7) Protection of Ozone layer –GUJCOST, Gandhinagar, Seminar Hall, EED, SVNIT, Surat, September, 2003
- 8) Understanding corrosion phenomena for cooling water perspectives, Hotel Surya Palace, Baroda, 23-25 <sup>th</sup> June, 2005. Corrosion Awareness & Educational Programme of NACE International India Section, Mumbai.

- 9) Metallic Corrosion and its control in Chemical Industries to the students of 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year of B.E. (Chem. Engg.) of Sarvajanik College of Engg. & Tech., Surat, 10<sup>th</sup> Sept, 2009.
- **10**) **Fundamentals of Corrosion Science and Technology,** 25<sup>th</sup> Dec, 2007 in Short Term Training Programme sponsored by Technical Education Quality Improvement Programme at SVNIT, Surat
- **High Temperature Corrosion**, 26<sup>th</sup> Dec, 2007 in Short Term Training Programme sponsored by Technical Education Quality Improvement Programme at SVNIT, Surat
- **12)** Cathodic and Anodic Protections, 28<sup>th</sup> Dec, 2007 in Short Term Training Programme sponsored by Technical Education Quality Improvement Programme at SVNIT, Surat
- 13) Introduction to Metallic Corrosion and Its Control- Interaction of Solid and Liquid Condensed Matters, SDP on Condensed Matter Physics, Applied Physics Dept, S V National Institute of Technology, Surat, 30<sup>th</sup> July- 3<sup>rd</sup> August, 2009
- **14) Electro-analytical Non-potentiomentric Methods** in "Short Term Training Programme on 'Instrumental Analytical Techniques' during 27-29<sup>th</sup> November, 2007 organised by Sarvajanik Education Society, TIFAC-CORE in Environmental Engineering at Sarvajanik College of Engineering & Technology, Surat.
- **AC Impedance Technique as a tool to Monitor Corrosion Rate,** 8<sup>th</sup> Oct, 1984, R & D Centre, GSFC, Baroda.
- **16)** Industrial Corrosion Problems and its Control, 7<sup>th</sup> Feb, 2000, B V M College of Engg & Tech, Bharuch, Gujarat.
- **Corrosion and its control by Nanoparticles based corrosion inhibitors,** At Learning House, Essar Steels, Hazira in 47<sup>th</sup> NMD Celebration programme on 27<sup>th</sup> November, 2009.
- **18**) **Fundamentals of Corrosion and its control,** At Learning House, Essar Steels, Hazira in 46<sup>th</sup> NMD Celebration Programme (NMD 08) on 27<sup>th</sup> November, 2008.
- 19) Corrosion and Corrosion Control by Nanoparticle-based Corrosion Inhibitors at AICTE sponsored Staff Development Program 'Recent Developments and Future Trends of Nanotechnology in Modern Science" on 21<sup>st</sup> Dec, 2009 organized by Applied Chemistry Department, S V national Institute of Technology, Surat.
- **Recent Developments and Future Trends in Electrical Enery Generation, Storage and Release** at AICTE sponsored Staff Development Program 'Recent Developments and Future Trends of Nanotechnology in Modern Science" on 24<sup>th</sup> Dec, 2009 organized by Applied Chemistry Department, S V national Institute of Technology, Surat.
- Honours: Co-Chaired a session, Feb, 1998 in International Conference ICCIE-98 at A M U, Aligarh & Chaired technical sessions in 4 National Corrosion Conferences in Mumbai, Baroda, Madurai and Goa. Chaired Technical sessions in International Conference MICMEP-99, IPCL, Baroda and in Global Conference on Corrosion Control (GLOCORR-2001),New Delhi(NCCI), in International Conference on 'Advances in Mechanical Engineering' (ICAME-2010) at SVNIT on 6<sup>th</sup> Jan., 2009.

Academic \*In India, various National/International Conferences were attended and the papers

Visits:

were presented at Aligarh, Calcutta, New Delhi, Madras, Bangalore, Karaikudi, Mangalore, Baroda, Hyderabad, Jaipur, Chennai, Goa, Mumbai.

\*Abroad, Under UNESCO & Govt of Japan Fellowship worked during 1979-80(1 yr) in Tokyo Institute of Tech. Tokyo. Short visits made to various Industries like Nippon Steel Co, Japan Electronic & Optical Ltd(JEOL), Ajinomoto, Tokyo, Fijutsu Institute of Computer Science, Hiroshima. Visited Prof. H H Uhlig's Corrosion Research Centre, MIT,USA, Electrochem Dept, Uni of Pierre & Marie Currie, Paris,France, May-June, 1983, The Ontario Research Foundation, Toronto, Canada and well known Corrosion & Protection Centre, Uni. of Manchester Institute of Science & Tech. (UMIST)UK, June, 1984 and represented our college and nation abroad while presenting papers.

# **Other Experiences:**

**Library Development Experience** While working as a Member of Library Committee, attempts were and being made to provide latest, very useful text-books, reference books, periodicals & e- journals of National & International reputation in Chemistry, Corrosion & Chem Engg CD- ROM, Softwares & Videos, Computers for were procurred to update and bring awareness of corrosion to our young engineers. **Laboratory Development Experience** 

- 1. Changing from BE -to 4 -Yrs Degree Course, a new lab was established **Development** under guidance of HOD, Prof. T.P. Sastry. Procurring various lab equipments like pH-meters, Potentiometers, Coulometers, Monopan balance, Ramp Generator, Spectronic-20, B & L, etc
- 2. While working as a Co-investigator on Min of Edu,GOI project on 'Acid corrosion inhibitors', Bank, Potentiostat LB75 M Wenking & Potentio- Galvano-scan,PGS-81, were imported & other instruments, equipment procured/maintained till today.
- 3. From 1982 to1987-88, for a Full time P G Course in Applied Analytical Chemistry two labs were developed under guidance of HOD, Prof T P Sastry.
- **4. 1994-95** onwards 3 new Labs developed for new Chem Engg Degree Course viz Labs for Organic, Inorganic and Physical Chemistry many equipment, instruments, glass-wares and chemicals were procured and helped developing few labs of Chemical Engg.
- 5. 1997-2002 Acted as HOD, Chem. Engg Dept and developed infrastures and laboratories.
- **6. 2003-2009** Developed Computer laboratories for the students of 5-yrs Integrated M. Sc. Programmes of Chemistry, Physics and Mathematics and various sophisticated equipments like UV-Visible spectrophotometer, FT-IR (Shimadzu), AC-Impedance Spectroscopy, Microwave Reactor etc were procured for the students of Integrated M Sc (Chemistry) programme, for Ph D (Chemistry) students and recently joined young faculties
- **7. As Dean, PG Programme,** (2005-07) 5 New M. Tech and 3 New 5-Yrs Integrated M. Sc. Programmes in Chemistry, Physics and Mathematics were developed including the Rules & Regulations, Teaching & Examination Schemes and Syllabie.

#### LIST OF RESEARCH PAPERS PUBLISHED/ PRESENTED:

# PUBLISHED IN INTERNATIONAL JOURNALS/ PRESENTED AND PUBLISHED IN INTERNATIONAL CONFERENCE PROCEEDINGS:

- 1 G N Mehta, T Tsuru and S Haruyama,
  - Impedance technique to study passivity of steel,

Proc 5th International Symposium on Passivity, Bombannes, Bordaux, France, May, 28- June-3<sup>rd</sup>, 1983, "Passivity & Semiconductors", Editor, M Froment, Elsevier Publications, The Netherlands, (1983) pp. 681-85.

- 2 G N Mehta, T Tsuru and S Haruyama,
  - Impedance study of iron and steel: Effect of Thiourea,

Proc International Conference on Corrosion Inhibition, Hilton Inn, Dallas, TX, USA, NACE, May, 16<sup>th</sup> -20<sup>th</sup> (1983).Pre-pr.27

- 3 G N Mehta, T Tsuru and S Haruyama,
  - Impedance technique to study corrosion of iron and steel- Effect of temperature,

**Proc.** 9<sup>th</sup> **International Congress** on Metallic Corrosion, Toronto, Ontario, **Canada**, 3-7<sup>th</sup> June, 1984 (NACE, TX, USA, National Research Council of Canada) **Vol. IV p.523-6.** 

- 4 G N Mehta and T P Sastry,
  - Evaluation of phenothiazines as inhibitors by electrochemical techniques,

Boshoku Gijutsu(Corrosin Engg), 29 (1980)223.

- M J Sanghvi, S K Shukla, A N Misra, M R Padh and G N Mehta, Inhibition of hydrochloric acid corrosion of mild steel by acid extracts of embelica officianalis, terminalia belerica and terminalia chebula, B Electrochem, 13 (1997) 358-61.
- 6 M J Sanghvi, S K Shukla, A N Misra, M R Padh and G N Mehta, Evaluation of pyridine and picolines as inhibitors for corrosion of mild steel in agitated

5 % HCl at 50<sup>0</sup> C by DC Polarisation & Weight loss techniques, Presented in International Conference on Corrosion & Corrosion Exhibition,

CORCON'97 at Nehru Centre, Mumbai, 3-6<sup>th</sup> Dec, 1997, NACE International India Section, Mumbai -**Published in CORROSION, Vol-II,** Editors, A S Khanna, M K Totlani and S K Singh, **Elsevier Sc,** B V, The Netherlands (**1997**) **p.909.** 

- 7. M J Sanghvi, S K Shukla, A N Misra, M R Padh and G N Mehta,
  - Corrosion inhibition of mild steel in hydrochloric acid by acid extracts of sapindus trifolianus, acacia concian and trifla,

Trans MFAI, 5 (1996) 143-7.

**8** J R Patel, A N Mishra and **G N Mehta**,.

Corrosion of Steel in Concrete in 3% NaCl Solution and effect of Oleates- Study by Gravimetric and Half Cell Potential Measurements with Lapse of Time.

Proc. of International Conference on Corrosion Control (CORCON2000), **20**<sup>th</sup> **-23**<sup>rd</sup> **Nov, 2000,** Hotel Regent, Bandra, Mumbai, NACE International India Section, Mumbai.

# 9 G N Mehta,

Semithiocarbazide as acid corrosion inhibitor for mild steel- Study by DC Polarisation resistance techniques,

Trans MFAI, 3 (1994) 9-12.

#### 10 G N Mehta,

Tafel intercept and linear polarisation resistance techniques to study acid corrosion of mild steel & effect of Thiourea.

B Electrochem, 4 (1988) 111.

### 11 M H Desai and G N Mehta,

Study of Nicotinamide and Thiourea as acid corrosion of mild steel by DC polarisation methods,

B Electrochem, 13 (1997) 49-52.

### 12 S J Zakvi and G N Mehta,

A comparative study of synthesis of glycerol monochlorohydrine,

J Scientific Research (India), 9 (2,3) (1987) 53-8.

# 13 G N Mehta and T P Sastry,

Evaluation of quinolines as inhibitors by electrochemical techniques,

**Proc 2nd International Symposium** on Industrial & Oriented basic electrochemistry, SAEST (Karaikudi), IIT, Madras,  $9^{th}$  -13  $^{th}$  Dec ( 1980 ) **Prepr. 6.24** 

#### 14 M H Desai and G N Mehta,

Acid corrosion of mild steel and effect of hexamine, thiourea & their mixtures- Study by DC Polarisation methods,

First India International Electroplating and Metal Finishing Congress (IMFCONG), IIT, Mumbai, 21<sup>st</sup> -23<sup>rd</sup> Jan, 1997, MFAI, SAEST, CECRI, ECSI, UUSF. Trans MFAI, 6 (1997) 31-36.

# 15 M J Sanghvi, S K Shukla, A N Misra, M R Padh and G N Mehta

Formulations of 5 % HCl corrosion inhibitors for mild steel using weight loss and DC Polarisation techniques,

Int'l Conf. Maintenace, Inspection, Corrosion, Materials, Engineering and Plant reliability (MICMEP-99), **Tech. Vol. p.84-87**, (IIM, Baroda Chapter) at IPCL, Baroda, **4**<sup>th</sup> -6 <sup>th</sup> **Feb, 1999**.

#### 16 S A Verma and G N Mehta,

Effect of Acid Extracts of Calotropis Giganta Latex on Sulphuric Acid Corrosion of Mild Steel- Study by DC Polarisation Techniques,

Proc. Int'l Conf. on Chemistry, Industry and Environment' (ICCIE), Applied Chemistry Dept, Faculty of Technology, AMU, Aligarh, 9<sup>th</sup> -11 <sup>th</sup> Feb, 1998.

Chem.Environ.Res, 8 (1999) 131-6.

# 17 M J Sanghvi, S K Shukla, A N Mishra, M R Padh and G N Mehta,

Corrosion of mild steel in stirred 5% HCl at 75<sup>o</sup> C and effect of Dibenzyl Disulphide, Sulphoxide and Sulphide- Study by Linear and Log Polarisation and Weight Loss Methods

Proc. Int'l Conf. on Chemistry, Industry and Environment' (ICCIE), Applied Chemistry Dept, Faculty of Technology, AMU, Aligarh, 9<sup>th</sup> -11 <sup>th</sup> Feb, 1998.

Chem Environ Research, 8 (1&2) (1999) 137-142.

# 18 M Kalpana and G N Mehta

Evaluation of Enicostemna axillare as biodegradable less toxic inhibitor for acid corrosion of mild steel,

Proc International Congress on Emerging Corrosion Control strategies for the New Millennium held at India Habitat Centre, New Delhi, **Feb 20**<sup>th</sup> **-22**<sup>nd</sup>, **GLOCORR-2002** (NCCI, CECRI, Karaikudi).

# 19 M Kalpana and G N Mehta

Evaluation of Foenum graecum as inhibitor for acid corrosion of mild steel,

Proc First Asian Pacific Conference and 6<sup>th</sup> National Convention on Corrosion, **Nov**, **28<sup>th</sup>** -**30** <sup>th</sup>, **2001**, Bangalore.(Organized by NACE, International India Section, Corrosion Society of India, Mumbai.

# 20 M Kalpana and G N Mehta

Evaluation of commercial coatings on mild steel by DC Polarisation Methods, Proc of International Symposium on Metals/alloys for Chemical Processing Industries, 16<sup>th</sup> -17 <sup>th</sup> Nov, 2001 at Vadodara, org. IIM, Kolkatta and IIM Baroda Chapter.

#### 21 Smita Johri, K B Pai and G N Mehta

Evaluation of Famotidine Drug as Acid Corrosion Inhibitor using AC Impedance Techniques

Proc of Int'l Symp on Metals/ alloys for Chemical Processing Industries, 16<sup>th</sup> -17<sup>th</sup> Nov, 2001, Vadodara, IIM Kolkatta and IIM Baroda Chapter.

#### 22 \* N S Patel, S Jauhari and G N Mehta,

Inhibitive effect by acid extract of Tobacco on the Sulphuric acid corrosion of mild steel, IJ-ETA-ETS, 2(2), 2009, 186-90. (Amoghsiddhi Education Society)

#### 23 \* N S Patel, S Jauhari and G N Mehta,

Inhibitive effect by acid extract of Ficus exasperata leaves on the sulphuric acid corrosion of mild steel,

**accepted** for publications – **E- Journal of Chemistry.(WWW Publication)** 

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