

## Resume



1. NAME IN FULL **MADAN LAL KAPOOR**
2. FATHER'S NAME **Late A. R. Kapoor**
3. DATE OF BIRTH **1st July, 1942**
4. NATIONALITY **Indian**
5. ADDRESS **A-08/501, Olive County,  
Sec.5, Vasundhara Ghaziabad-201012**

### 6. EDUCATIONAL QUALIFICATIONS *(in chronological order from the Bachelor's Degree onwards)*

Sl. No.	Exams. Passed	Univ./Institution	Year of Passing	Main Subject	Division or Equivalent
1.	B. Sc. (Met. Engg.)	Banaras Hindu University.	1963	Metallurgical Engineering	First Class Third Rank
2.	M. Sc. (Met. Engg.)	Banaras Hindu University.	1966	-Do-	First Class Second Rank
3.	<b>Ph. D. *</b>	<b>Technical University, West Berlin.</b>	<b>1971</b>	<b>Fundamentals of Metallurgy.</b>	<b>Distinction (Highest Grade for Ph.D.)</b>

\* Title of Ph. D. Thesis: Application of Statistical Thermodynamics to Binary and Ternary Silicate Systems. (Written in German language)

### 7. PROFESSIONAL TRAINING

Sl. No.	Organisation	Period		Details of Training
		From	To	
1.	Technical University, West Berlin.	1968	1975	Doctoral and Postdoctoral Work, Teaching.
2.	Technical University, West Berlin.	1.6.1982	30.8.1982	Academic visit under Indo-German Academic and Cultural Exchange Programme.

3.	Baikov Institute, Moscow.	1.9.1983	30.11.1983	Academic visit under Indo-Soviet Academic and Cultural Exchange Programme.
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## 8. German language Proficiency

(i) Attended four months German language course at Goethe Institute, Achenmule, Munich, Germany from June 1968 – oct. 1968.

(ii) Worked as official translator for german to English for technical articles with INSDOC, a govt. Of India organisation for about four years.

## 8a EMPLOYMENT RECORD

(Details in chronological order, starting with the first job)

Sl. No.	Name & Address of the Employer/ Institution.	Period of Service		Designation of Post held	Nature of Work and Level of Responsibility.
		From	To		
1.	Department of Metallurgical Engg. Banaras Hindu University.	1963	1968	Lecturer	Teaching and Research.
2.	Depatment of Metallurgy, Technical University, West Berlin.	1968	1971	German Academic Exchange Service Scholar.	Research
3.	<b>Department of Metallurgy, Technical University, West Berlin.</b>	<b>1971</b>	<b>1975</b>	<b>Wissenschaftliche Assistant</b>	<b>Research and Teaching.</b>
4.	Department of Metallurgical Materials Engg. IIT Roorkee (Formerly University of Roorkee)	1975	1977	Reader	Research and Teaching.
5.	Department of Metallurgical Engg., Indian Institute of Technology, Kanpur.	1977	1978	Assistant Professor	Research and Teaching.
6.	Department of Metallurgical & Materials Engg., IIT Roorkee. (Formerly University of Roorkee)	1978	To date	Professor	Research and Teaching.

## 9. ADMINISTRATIVE POSITIONS HELD

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Sl. No.	Position	Department/Institution	Time Period
1.	Head/ Chairman	Deptt. of Metallurgical & Materials Engg. , IIT Roorkee (Formerly University of Roorkee)	Oct. 1980-Sept. 1983
2.	Head/ Chairman	-Do-	Sept. 1989-Aug. 1992
3.	Dean of Students Welfare	IIT Roorkee, Roorkee.	July 1994-July 1997
4.	Member, Board of Governors	National Institute of Secondary Steel Making, New Delhi.	1988-1994
5.	Director	Health Centre, IIT Roorkee	July 1997- Dec. 1999
6.	Registrar	IIT Roorkee (formerly University of Roorkee)	Sept. 1998-Jan. 1999
7.	Dean, Development & Planning	IIT Roorkee, (formerly University of Roorkee)	Jan. 1999- March 2002
8.	Deputy Director	IIT Roorkee, Roorkee	June 18, 2003-30.6.04

10. DETAILS OF RESEARCH WORK/ OTHER RELEVANT EXPERIENCE, IF ANY.

Thirty five year of research experience in the field of extractive metallurgy covering the Thermodynamic and Kinetic studies of different extraction processes, development of processes for recoveries from, wastes, and energy auditing. Undertaken a large number of research and consultancy projects from private industries, CSIR (Council of Scientific and Industrial Research, India. ), BARC (Bhabha Atomic Research Centre, India.), SAIL (Steel Authority of India, Limited), BHEL (Bharat Heavey Electricals Limited, India.), VDEH (German Iron and Steel Institute), DFG (German Research Council), ONGC (Oil and Natural Gas Commission, India.), MHRD (Ministry of Human Resource Development, Govt. Of India), MECON (Metallurgical and Engineering Consultants, India.). (Annexure -I for list of Projects)

Published over 100 papers in reputed national and International journals such as Zeitschrift fuer das Metalkunde, Eisen and Stahl, Archiv for das Eisenhutten wesen, Met. Trans, Acta Metallurgical, International Metallurgical Reviews, Journal of Indian Institute of Metals, Journal of Hydrometallurgy etc. (Annexure II for list of publications)

## 11. Specific Achievements

### (a) Administrative

- (i) As **Head of Department** , Department of Metallurgical and Materials Engineering 'Oct. 1980' to 'Sept.1983' and 'Sept. 1989' to 'Aug. 1992' encouraged faculty to write projects, and modernised curriculum to suit the needs of the time, besides normal administrative and academic work.
- (ii) As **Dean, of Students Welfare** , (July 94 to July 97) . Dean of student welfare looks after the welfare of about 3000 students residing in the university and controls at least 300 members of staff working in messes and hostels. During my tenure a number of welfare and cultural schemes were launched and successfully implemented.
- (iii) As **Registrar** (Sept 98 to Jan. 99) , in the absence of a regular registrar who retired. The undersigned looked after the duties of Registrar and sorted out a number of problems of faculty (Approx. strength 400 ) and ministerial and other staff (Approx. 1100).
- (iv) As **Dean Development and Planning** : The undersigned is entrusted with the planning of University Budget, Formulation and implementation of plan proposals for UGC , State Government Formulation and screening of proposals for MODROBS, TAPTEC and R&D for AICTE. It also involves interaction with various foreign embassies for admission of students to the university which are numbering around 180 at present.

Apart from the above, the undersigned has served the Institute on a number of committees, either as a member or as chairman.

### (b) Academic

(i) Supervised 14 Ph. D. theses in various areas of Metallurgy and Material Science.

(ii) Monographs/ Books written.

**A. Q.I.P. EDUCATIONAL MONOGRAPH PUBLISHED.**

(i) 'Chemical and Metallurgical Thermodynamics, Part-I-Fundamentals.

(ii.) 'Chemical and Metallurgical Thermodynamics, Part-II-Non-reacting systems.'

(iii) 'Chemical and Metallurgical Thermodynamics, Part-III- Reacting Systems.'

(iv) 'Transport Phenomena, Vol. I '

(v) Transport Phenomena, Vol. II '

**B. BOOKS PUBLISHED**

i. Chemical and Metallurgical Thermodynamics, Vol. I Fundamentals (304 pages, 1984).ii. Chemical and Metallurgical Thermodynamics, Vol. II Applications (567 pages, 1984).

The National Book Trust, New Delhi has granted subsidy to the publishers for publications of these books as ' Low Cost Subsidised Edition' (LCSE). These serve as text books.

**(iii) Invited Lectures**

Delivered extensive lectures in conferences as well as on invitation to institutions.

**(iv) Memberships of Professional Bodies**

1. Fellow of Institution of Engineers (India).
2. Life Member of Indian Institute of Metals.
3. Life Member of Power Metallurgy Association of India.

**(v) Awards and Honours**

- I. NINETEENTH NATIONAL METALLURGIST'S DAY AWARD, 1981.

Awarded by the Ministry of Steel and Mines, Government of India.

II. DISTINGUISHED ALUMINUS AWARD, 1983.

Awarded by the **Department of Metallurgical Engineering, Institute of Technology, B.H.U., Varanasi.**

III. KAMANI GOLD MEDAL, 1981 AND 1989.

Awarded by the **House of Kamanis**, to the principal author of the paper of the highest merit published in the **Transactions of Indian Institute of Metals.**

IV. BEST PAPER AWARD

Awarded for research contribution entitled, **Application of Ionic Theory of Electric Arc Welding with Self-fluxing electrodes**, with special reference to the distribution of Oxygen, Silicon, Phosphorous, Sulphur and Manganese between Slag and Metal.

V. In recognition of the research contribution of Dr. Kapoor and the research group set-up by him at Roorkee, the Department of Metallurgical Engineering, University of Roorkee has been granted, **'Special Assistance'** in the area of **"Metallurgical Thermodynamics"** by the **University Grants Commission.**

VI. Appointed **EXPERT MEMBER BY PICUP (Provincial Industrial Corporation of Uttar Pradesh)** for review of Metallurgical Projects for grant of loan and assistance to entrepreneurs.

VII. Accredited as **PROFESSOR** to the **Department of Earth Science, Roorkee University**, in recognition of the research contributions on silicate systems.

VIII. Accredited with **NATIONAL LECTURERSHIP** by **UGC** for the year 1990-91.

IX. Was invited to **CHAIR A TECHNICAL SESSION** in the **International Conference on Chemical**

**Metallurgy, ICMS-81**, held at the **Indian Institute of Science, Bangalore** in July, 1983 and also delivered an Invited talk on '**Thermodynamics of Metallic Solution**' in the same conference.

- X. Was invited to **CHAIR A TECHNICAL SESSION** on '**Post- reduction purification**', in the **Symposium on Metallothermic Processes in metal and alloy extraction**, organised by the **Department of Atomic Energy, Govt. of India at V.R. Collage of Engineering , Nagpur**, on Dec. 28-30, 1983.
- XI. Was invited to **CHAIR TECHNICAL SESSION ON Electrometallurgy and Corrosion, International Conference on Progress in Metallurgical Research- Fundamental and Applied Aspects '**, held at **I.I.T. Kanpur** on Feb. 11-15, 1983.
- XII. Was invited to **CO-CHAIR TECHNICAL SESSION** on '**Metallurgical Industries**', in seminar on **Energy Conservation in Process Industries,**' held at **The Institution of Engineers (India), Roorkee Local Centre** on July 1-2, 1985.
- XIII. Was invited to **CHAIR A TECHNICAL SESSION** at Annual Technical Meeting held in Hyderabad in 1992.
- XIV. Appointed **MEMBER OF EXPERT ADVISORY COMMITTEE** on **Metallurgy**' of the '**Commission of Scientific and Technical Terminology**' **Ministry of Education and Social Welfare, Govt. of India** for work on their projects on "**Definitional Dictionary of Metallurgical Terms**' and, **SAIL sponsored 'Steel Glossary'** .
- XV. Served as an **EXPERT ON SELECTION COMMITTEES** of various reputed National Institutes and also for evaluation of projects.
- XVI. Visited **T. U. Berlin Germany** for three months under DAAD revit programme in 1992.
- XVII. Visited **\_Baikov Institute, Russia** under cultural exchange programme for 3 months in 1993.