

**LISTING OF PAPERS PRESENTED  
IN VARIOUS SYMPOSIA OF  
PAKISTAN ENGINEERING CONGRESS**

# LISTING OF PAPERS PRESENTED

## IN VARIOUS SYMPOSIA OF

### PAKISTAN ENGINEERING CONGRESS

<b>VOLUME / SR. NO.</b>	<b><u>TITLE OF SYMPOSIUM / PAPER</u></b>	<b>NAME OF AUTHOR</b>
<b>Volume I</b>	<b>HOUSING PROBLEMS OF WEST PAKISTAN FEBRUARY, 1957</b>	
1.	Introduction to Housing Problems	S. A. Rahim
2.	Social Aspects of Housing	M. H. Shah
3.	Some Financial and Administrative Aspects of Housing	Khan Bashir Ahmad Khan
4.	Slum Clearance	Irshad Ahmad
5.	Urban Development in West Pakistan	Mazhar Munir
6.	Aspects of Rural Housing	Muhammad Afzal Khan
7.	Building Materials	A. A. Jamal-ud-Din
8.	Low Cost Houses	Ghias-ud-Din Habib
9.	Essential Services and Development Cost	Mukhtar Ahmad
10.	Principles of Architectural Designing	Naseer-ud-Din Murat Khan
<b>Volume II</b>	<b>FLOODS IN WEST PAKISTAN FEBRUARY, 1958</b>	
11.	Causes of Floods in the Indus Basin	S. N. Naqvi
12.	Forecasting	Wirasat Ullah Khan
13.	Effects of Floods and Remedial Measures	Mian Alim-ud-Din

Suggested

- |                   |  |   |
|-------------------|--|---|
| 14.               | Effect of Floods on the Economy of the Country   | Abdul Aziz Anwar                          |
| 15.               | Effect of Floods on Communications: a) Roads b) Railways   | A. A. Jamal-ud-Din & M. M. Zubair         |
| 16.               | Prevention and Control of Floods   | Mian Muzaffar Ahmad                       |
| 17.               | Soil Conservation – A Measure of Flood Control   | H. J. Asar                                |
| 18.               | Disposal of Floods   | Sardar Allah Bakhsh                       |
| 19.               | Forestry in Relation to Flood Preservation and Control in West Pakistan  | Muhammad Ihsan-ur-Rehman Khan             |
| 20.               | Impact of Floods on Water Resource Development   | I. A. Zafar                               |
| 21.               | Floods in the Arid Zones of West Pakistan  | G. A. N. Starmans                         |
| <b>Volume III</b> | <b>WATER-LOGGING AND SALINITY IN WEST PAKISTAN<br/>FEBRUARY, 1959</b>  |   |
| 22.               | Tile Drainage  | M. Saeed Minhas                           |
| 23.               | A Correlation of Resistivity Variations in Saline and Non-Saline Water Bearing Formations  | R. A. Shamsi                              |
| 24.               | Application of Electrical Resistivity Method to Investigate Sub-Surface Geology with Special Reference to Hafizabad Reclamation Area | Maqsood Ali Shah Gilani                   |
| 25.               | A New Conception on the Water-Logging and Salinity Problem of Rechna Doab  | Dr. Nazir Ahmad, Dewan Ali and Afaq Ahmad |
| 26.               | Physiographic History of Land Formation in West Pakistan   | Syed N. A. Z Hussaini                     |
| 27.               | Economic Effects of Water-Logging and Salinity in West Pakistan  | Aziz A. Anwar                             |
| <b>Volume IV</b>  | <b>ENGINEERING EDUCATION IN PAKISTAN<br/>FEBRUARY, 1960</b>  |   |

- |     |   |                        |
|-----|---|------------------------|
| 28. | Ideals for Engineering Education in Pakistan            | Dr. Mubashir Hasan     |
| 29. | Education and Training in Engineering Colleges          | Dr. Akmal Hussain      |
| 30. | Proposal for a Pakistan College of Mines                | Robert L. Burns        |
| 31. | The Place of Workshop Practice in Engineering Education | William Arthur Mellors |

**Volume V      PLANNING      AND      EXECUTION      OF  
ENGINEERING PROJECTS IN PAKISTAN  
MARCH, 1961**

- |     |   |                   |
|-----|---|-------------------|
| 32. | Role of Research in Engineering Projects          | Dr. Mushtaq Ahmad |
| 33. | Design Office-Practice                            | Mohi-ud-Din Khan  |
| 34. | Engineering for Modern Contracts and Construction | Daren G. Thiel    |
| 35. | Mechanization of Construction Operations          | Mian Masud Ahmad  |
| 36. | Consulting Engineering Practice in Pakistan       | I. A. Zafar       |

**Volume VI      SEDIMENTATION PROBLEMS AS A RESULT  
OF INDUS BASIN WORKS  
APRIL, 1962**

- |     |  |                            |
|-----|--|----------------------------|
| 37. | The Sedimentation of Mangla Reservoir  | Binnie, Deacon and Gourley |
| 38. | The Sediment Problems on the Indus at Tarbela  | John B. Drisko             |
| 39. | Silt Trap Efficiency of Reservoirs with Special Reference of Tarbela and Mangla Dams       | Dr. Nazir Ahmad            |
| 40. | Reduction of Mangla Reservoir Sedimentation by Watershed Management                        | James C. Ringenoldus       |
| 41. | Silt Trap Efficiency of Vegetative Cover in the Catchment Area                             | Amir Ahmad Khan            |
| 42. | Sediment Problems in the Indus Basin Part-II Sedimentation in River Channels and Floodways | S. S. Kirmani              |

43. Changes in River Regime as a Result of Link Canals R. K. Lewis
44. Some Salient Features of Silt Ejector in a Fluvial Channel Based on Hydraulic Model Studies Mushtaq Ahmad and Muhammad Ali
45. A Review of Sediment Problems and Possible Solutions V. A. Koelzer and Marcel Bitoun
46. The Present and Future of Silt Excluding Devices Mohi-ud-Din Khan
47. Sampling and Analysis Technique for Suspended Sediment M. M. Sadiq

**Volume VII WATER-LOGGING AND SALINITY IN WEST PAKISTAN  
OCTOBER, 1963**

48. History and Magnitude of Water-logging and Salinity Problems in Former Punjab, West Pakistan M. A. Lateef and R. A. Shamsi
49. Salinity and Groundwater Conditions in the Lower Indus Plains, Sukkur-Guddu Right Bank and Khairpur-Lower Indus Project T. N. Jewitt
50. Water-Logging and Salinity as Factors Limiting Agricultural Production in West Pakistan Muhammad Hussain and Nur-ud-Din Ahmad
51. Sodium Hazard of Punjab Groundwaters C. A. Bower and M. Maasland
52. Results of Geologic and Groundwater Investigations in the Punjab Plain, West Pakistan Z. U. Kidwai, W. V. Swarzenski
53. The Programme of Investigations in the Former Sindh A. P. S. Forbes, G. R. Hoffman and Sir M. MacDonald
54. Economic Investigation as related to Drainage with Special Reference to Khairpur P. E. Naylor
55. WAPDA Programme of Water-Logging and M. Badr-ud-Din

	Salinity Control for West Pakistan	
56.	Development of Groundwater in the Indus Plains	M. Maasland, J. E. Priest and M. S. Malik
57.	Conjunctive Use of Surface Water and Groundwater Supplies in the Principal Canal Irrigated Areas of West Pakistan	Charles S. Hazen
58.	Review of Reclamation Activities and Methods and Suggested Measures for Water-logging and Salinity Control	Muhammad Hussain and H. A. Nishat
59.	Efficacy of and Dependence on Tubewells as a means of Providing Additional Supply Necessary for Controlling Salinity and Reclaiming Waterlogged Areas	Sarwar Jan
60.	A Study of the Rise of Groundwater and its Salinity in the Irrigated Areas of Indus Plains	Dr. Nazir Ahmad
61.	Performance of Salinity Control and Reclamation Project No. 1 Rechna Doab	Mian Shamim Ahmad, H. S. Zaidi and Badr-ud-Din
<b>Volume VIII</b>	<b>CONSULTING AND CONTRACTING PRACTICES IN PAKISTAN</b>	
	<b>MARCH, 1965</b>	
62.	Consulting and Contracting Practices in Pakistan	B. M. Abbas
63.	Consulting and Contracting Practices in Pakistan	A. V. Karpov
64.	Engineering Resources of Pakistan	A. A. Abidi
65.	Consulting and Contracting Practices in Pakistan	G. H. Vaughan Lee
66.	Considerations in the Establishment of a Pakistan Association of Consulting Engineers	G. T. Macarthy
67.	Consulting Services	Khawaja Azeem-ud-Din
68.	The Role of Private Consulting Firms in Modern Water Resources Development	E-Montford Fucik

69.	Administration of Large Contracts	J. R. Gwyther
70.	Construction Contracts and Law	S. M. R. Abidi
71.	Contracting Practice in Pakistan	Mangla Dam Contractors
72.	Consulting and Contracting Practices in Pakistan	Brig. Ahmad Khaleeli
<b>Volume IX</b>	<b>ROLE OF ENGINEERING RESEARCH IN DEVELOPING ECONOMY OF PAKISTAN OCTOBER, 1966</b>	
73.	Importance of Nuclear Power Generation in the Developing Economy of Pakistan	Masnoon S. Ahmad
74.	Nuclear Engineering Research for Development of Nuclear Power in Pakistan	Muhammad Yusuf
75.	Role of Research in Railways of Developing Countries	C. A. Vali
76.	Development of Building Research in West Pakistan	Mian Muhammad Hanif
77.	Role of Research in the Control and Use of Water	Mushtaq Ahmad
78.	Hydraulic Research in West Pakistan	Khalid Mahmood
79.	Hydraulic Model Research for Indus Basin Project	C. Van Beesten
80.	Research on Water and Land for Survival	Dr. Nazir Ahmad
81.	Water Conservation Studies for West Pakistan	Dr. Nazir Ahmad
82.	Impact of Irrigation Research on the Developing Economy of West Pakistan	Muhammad Hussain & Nur-ud-Din Ahmad
<b>Volume X</b>	<b>BRIDGES FEBRUARY, 1968</b>	
83.	The Technique of Steam Curing of Concrete	Mian Saeed Ahmad
84.	The New Challenge in Bridge Building	Abdus Salam

- |     |   |                                   |
|-----|---|-----------------------------------|
| 85. | Some Design Aspects of Thatta Shujawal Bridge on the Indus                        | Mohi-ud-Din Khan                  |
| 86. | Foundations for Thatta Shujawal Road Bridge on the Indus                          | A. L. Quadri and Mohsin H. Shaikh |
| 87. | Correction Factor for Evaluation of Discharge by Manning Formula in Bridge Design | Fateh Ullah Khan                  |
| 88. | Partial Prestressing for Highway Bridges  | Dr. Jorg Peter                    |

**Volume XI WATER RESOURCES DEVELOPMENT  
1969**

- |     |   |                         |
|-----|---|-------------------------|
| 89. | Planning the Development of Pakistan's Water Resources                            | Sarfraz Khan Malik      |
| 90. | Planning Irrigation Requirements  | Sh. Muhammad Afzal      |
| 91. | Drainable Surplus Problems in Irrigated Areas                                     | P. I. Druty             |
| 92. | Study of Water-Logging Problems of West Pakistan with Electric Analogue Computers | Maqsood Ali Shah Gilani |
| 93. | The Economics of Land Reclamation in the Sindh                                    | C. E. Finney            |
| 94. | Some Problems of Groundwater Resources of West Pakistan                           | Dr. Nazir Ahmad         |

**Volume XII PROBLEMS OF ENGINEERING PROFESSION  
IN PAKISTAN  
1971**

- |     |  |                      |
|-----|--|----------------------|
| 95. | Floods and Cyclones in East Pakistan                               | B. M. Abbas          |
| 96. | Engineering Consultancy and Contractual Services in Pakistan       | Muhammad Omar        |
| 97. | The Making of an Engineer  | Manzur Ahmad         |
| 98. | Development of Consultants and Contracting Professions in Pakistan | I. A. Zafar          |
| 99. | The Participation of Engineers in National Development             | Imtiaz Ali Qazilbash |



- |      |  |                  |
|------|--|------------------|
| 100. | Of Engineers and Accounts                | Riyaz H. Bokhari |
| 101. | Training Needs of Engineering Profession | S. M. Rafi Ahmad |
| 102. | An Engineer in Search of an Image        | Sh. Nisarul Haq  |

**Volume            PLANNING FOR NATIONAL OBJECTIVES**

**XIII                1972**

- |      |   |                    |
|------|---|--------------------|
| 103. | Planning of Highways for National Objectives  | Inam Bari Pervaize |
| 104. | Streamlining the Public Services for the Tasks of National Objectives               | M. Iftikhar-ud-Din |
| 105. | Organizing Earthmoving and Construction Equipment for Achieving National Objectives | S. Nisar ul Haque  |
| 106. | The Challenge of Power Supply in People's Era                                       | Mian Fazal Ahmad   |
| 107. | Manpower Planning   | K. M. Butt         |
| 108. | Evaluation of Projects ; An Administrative Missing Link                             | Masood Hassan      |
| 109. | People's Works Programme, Planning and Development at Local Level                   | Abdul Latif Mirza  |
| 110. | Development of Steel Industry in Pakistan   | Fida Rahim         |
| 111. | Do's and Don'ts in Infra-structural Planning  | Sarfraz Khan Malik |

**Volume            UTILIZATION OF NATURAL RESOURCES IN PAKISTAN FOR SELF RELIANCE**

**1974**

- |     |   |                    |
|-----|---|--------------------|
| 112 | Role of Pakistan's Natural Gas Industry Towards Self Reliance in the Energy Economy | A. Samad           |
| 113 | Supply and Demand of Chemical Fertilizers   | Dr. W. M. Butt     |
| 114 | Energy Resources of Pakistan  | M. Masih-ud-Din    |
| 115 | Phosphate Deposits of Pakistan  | S. Tayyab Ali Shah |

**Volume      **TARBELA DAM PROBLEMS AND SOLUTIONS****

**XV            **1975****

- |            |   |                                    |
|------------|---|------------------------------------|
| <b>116</b> | History of Tarbela from Inception to Substantial Completion | Riaz Nazir Tarar                   |
| <b>117</b> | Seepage Control at Tarbela Dam through Upstream Blanket     | Amjad M. Agha                      |
| <b>118</b> | A Study in Dam-Break Flood                                  | Sh. Abdul Rahman and Khalid Javed  |
| <b>119</b> | Modern Techniques of Vigilance and Repairs on Large Dam     | Ch. Altaf Hussain                  |
| <b>120</b> | Economic Effect of Tarbela Mishap                           | Irshad Ahmad                       |
| <b>121</b> | Hydraulic Model Studies for Tarbela Dam                     | Mushtaq Ahmad and Ch. Muhammad Ali |
| <b>122</b> | Tarbela Dam Project   | Sheikh Ahmad Hassan                |

**Volume      **LOW-COST STRUCTURES****

**XVI            **1978****

- |             |   |   |
|-------------|---|---|
| <b>123.</b> | Aspects of Low Cost Urban Construction in Pakistan                                  | Z. Mian, K. Mahmood and S. T. Wasti               |
| <b>124.</b> | Self-Reliance in Low Cost Rural Development   | N. M. Awan  |
| <b>125.</b> | Economy in Low Cost Housing   | Muhammad Sharif Ahmad                             |
| <b>126.</b> | A Study of the strength of Effect of Sand on the Compressive Stabilized Soil Blocks | Ahmad Mukhtar Khan                                |
| <b>127.</b> | Primary School Buildings Requirements and Design                                    | K. Mahmood and S. Khalifa                         |
| <b>128.</b> | Economical Design of Masjid Dome  | Sh. Wajeeh-ud-Din, Bakhtiar Ali and Muhammad Azim |
| <b>129.</b> | Towards Low Cost Buildings  | Kennerth G. Old                                   |

130.	Determining Minimum Cost Cross - Sections for Lined Channels	Tom Trout
<b>Volume XVII</b>	<b>ENGINEER'S ROLE IN PLANNING EXECUTION AND MANAGEMENT OF PROJECTS</b>	
	<b>1982</b>	
131.	Essentiality of Project Management in Developing Economics	Khalid Mohtadullah
132.	Some Management Aspects of SCARP-I	Dr. N.M. Awan
133.	Planning of Flood Protection Works	Muhammad Aslam Chohan
134.	Revised Action Programme for Irrigated Agriculture in Pakistan	M. Badr-ud-Din
135.	SCARP Planning in Northern Indus Plains	Ch. Ata-ur-Rehman
<b>Volume XVIII</b>	<b>RURAL DEVELOPMENT</b>	
	<b>OCTOBER, 1985</b>	
136.	Strategies of Rural Development in Pakistan	M. S. Cheema
137.	Public Tubewells Vs. Private Tubewells	Ramiz Ahmad Mailk
138.	Enhancing Water Availability to Farmers for Achieving Higher Cropping Intensity – A New Approach	Nazar Muhammad, M. I. Shaheed and S. M. A. Zaidi
139.	Non-conventional Energy Options for Rural Electrification in Pakistan	Mushtaq Ahmad Bhatti
140.	Rural Roads in the Punjab	Rana Akhtar Ali Chohan
141.	Impact of Salinity Control and Reclamation Projects on Rural Development	Dr. N. M. Awan
142.	Sanitation and Drainage in Rural Areas of Pakistan	Rana Muhammad Saeed Ahmad Khan

143.	Drinking Water Supply Coverage to Rural Areas in Pakistan	S. M. Ashraf
144.	Farm Machinery and its Role in Development	Sikandar M. Khan
145.	Maintenance, Operation and Construction of SCARP Tubewells with Special Reference to SCARP II	Sh. Abdul Hamid Arif
146.	Electrification of Villages	Abdul Aziz Chaudhry
<b>Volume XIX</b>	<b>ENERGY CRISIS 1985-86</b>	
147.	Energy Conservation	Sadaqat Hassan Mir
148.	Development of Thermal Power	Ch. Arshad Zaman
<b>M 149.</b>	Medium Term Strategy of Hydroelectric Development in Pakistan	Saeed Akhtar Niazi
150.	Mini Hydro Power Development in Pakistan	M. R. Chaudhry
151.	Energy Loss Reduction in WAPDA Power Distribution System	Daud Beg
152.	An Overview of Energy Position in Pakistan	Muhammad Irfan Akhtar
153.	Energy Conservation in Air-Conditioning	Syed Qamar Raza Naqvi
154.	Renewable Energy Options to Overcome Energy Crisis in Pakistan	Mushtaq Ahmad Bhatti
155.	Necessity of Nuclear Energy for Pakistan	Dr. Arshad Muhammad Khan
156.	Research Programme for Solar Energy	Dr. Syed Wajahat Ali
<b>Volume XX</b>	<b>QUALITY CONTROL AND MATERIALS 1986-87</b>	
<b>M 157.</b>	Evaluation of Mortar / Concrete Mix-Ratio Analysis Method	Dr. Irshad Ahmed
158.	Quality Control on Construction Material	Muhammad Afzal Bhatti

159.	Material Prospection for Dams	Dr.Izhar-ul-Haq
160.	Quality Control in Pakistan Industries - Present Situation	Anwar Saleem
161.	Quality Control Programme in Construction of a Nuclear Facility	Shafqat Rabbani
162.	Effectiveness of Pakistan Steel's Slag in Controlling Alkali Silica	Ghulam Hussain
163.	Improved cast in the Service of Engineers	J. K. Jaffery
<b>Volume XXI</b>	<b>HYDEL POWER IN PAKISTAN 1987-88</b>	
	Key Note Address	Dr. Izhar-ul-Haq
164.	Hydro Power Potential of Pakistan	Dr. Izhar-ul-Haq and K. F. Sheikh
165.	Hydro Electric Power Projects Construction Planning and Implementation in Inaccessible Northern Areas of Pakistan	Brig. Ijaz-ud-Din Khan
166.	Socio-Economic Imperatives of Hydro-Electric Development in Pakistan	Mian Fazal Ahmad
167.	Micro Power Plant Programme in Pakistan	Anwar A. Junejo and Zafar Iqbal
168.	Planning Strategy for Development of Hydro-Power in Pakistan	Muhammad Zakaria
169.	Small Scale Power Generation in Private Sector with Special Reference to Small Hydel Power Generation	L. A. Jaffery
170.	Construction Planning of Small Hydro-Power Projects Financing-Contract Packaging Project Schedule	S. M. Kirmani
171.	Indigenous Development to Exploit Hydel Potential in Pakistan	Dr. M. Y. Akhtar

172.	Kundal Shahi Hydel Scheme	Khalid Yamin
<b>Volume XXII</b>	<b>OPERATION AND MAINTENANCE OF COMPLETED PROJECTS 1989-90</b>	
	Key Note Address	R. K. Anver
<b>M 173.</b>	Historical Review of Development in Design, Operation and Maintenance of Barrages in Relation to Surface Flow	Dr. Mushtaq Ahmad
174.	Operation and Maintenance of Canals	R. K. Anver and R. Haq
175.	Operation and Maintenance of Completed SCARPS	Hamid Ullah Khan, Syed Rehmat Ali and Muqarrab Khan
176.	Operation and Maintenance of Dams	Dr. Izhar-ul-Haq
177.	SCARP Planning, Operation and Maintenance	Nasir Ahmad
178.	Modern Telecommunications on Pakistan Railways	Khalid Qasim
179.	New Concept in Modern Signalling Maintenance Methods	Wasif Roheel
180.	Maintenance of Drainage Systems	Syed Mansoob Ali Zaidi, Haroon Shami and Muhammad Mehdi Zaidi
<b>Volume XXIII</b>	<b>FLOOD MANAGEMENT IN PAKISTAN JULY, 1994</b>	
	Key Note Address	E. I. Johri
181.	Floods in Indus Basin, Their Control and Management	Riaz-ul-Haq
182.	Management of 1992 Floods Through Mangla Reservoir	Muhammad Afzal and Abdul Ghani
183.	On the Study of 1992 Floods and its Effects on	Syed Ali Rizwan and Faiz

- |             |   |                               |
|-------------|---|-------------------------------|
|             | Punjab  | Ahmad Chishti                 |
| <b>184.</b> | Role of Marginal Bunds in Flood Fighting – A Case Study of Cutting of Marginal Bunds During Floods of 1992 at Trimmu and Punjnad Head works | B. A. Shahid and A. S. Shakir |
| <b>185.</b> | Floods and Roads in Indus Basin   | E. I. Johri                   |
| <b>186.</b> | Floods Frequency Analysis at Some Typical Discharge Measuring Site of Pakistani Rivers  | Syed Ali Rizwan               |
| <b>187.</b> | Flood Forecasting and Warning Problems in Pakistan  | Abdul Majeed                  |

**MANAGEMENT OF HILL TORRENTS IN PAKISTAN**

**DECEMBER, 1995**

- |               |   |   |
|---------------|---|---|
| <b>188.</b>   | Watershed Management in Japan   | Yoichi Kishi  |
| <b>M 189.</b> | Management of Kaha Hill Torrent   | Syed Mansoob Ali Zaidi                              |
| <b>190.</b>   | Problems in Disaster Prevention in Developing Countries                                     | Masayuki Watanabe                                   |
| <b>191.</b>   | Harnessing of Hill Torrents in Pakistan: A Conceptual Analysis                              | Sabir Ali Bhatti, Muhammad Nasir A. Khan            |
| <b>192.</b>   | Flood Management of Hill Torrents in Pakistan   | Dr. A. S. Shakir, Asrar-ul-Haq and Dr. B. A. Shahid |
| <b>193.</b>   | Status of Rod Kohi System Management-A Case Study   | Dr. M. Shafiq, M. Z. Ikram & Muhammad Ahmad         |
| <b>194.</b>   | Role of Small Dams in Stream Flow Regulation  | Abdul Ghaffar                                       |
| <b>195.</b>   | Potential for Efficient Utilization of Hill-Torrents for Crop Production in Dera Ghazi Khan | Munir Ahmad, Asif Ali Bhatti & Muhammad Aslam       |
| <b>196.</b>   | Participatory Approaches in Integrated  | Moujahed Achouri                                    |

	Watershed Management	
<b>197.</b>	Upper Kaha Hill Torrents Management	Muhammad Azam, Bashir Ahmad Mian
<b>198.</b>	Flood Management of F. P. Bund Complex	Government of Sindh I & P Department
<b>199.</b>	Range Management in D. G. Khan	Forest Department D. G. Khan
<b>200.</b>	Rod Kohi System in D. I. Khan Division	I & P Department D. I. Khan, Govt. of N.W.F.P.
<b>Volume XXIV</b>	<b>IMPACT OF POWER POLICIES ON SOCIAL AND PRODUCTIVE SECTORS 1996</b>	
	Key Note Address	Ch. Ikram Ullah
<b>201.</b>	Power Growth in Pakistan	Capt. Khalid Sajjad
<b>202.</b>	Evaluation of the 1994 Private Power Policy	Javid Akhtar
<b>203.</b>	A Discourse of Thermal Generation Policy, Private Sector Vs. Public Sector	Iqbal Ashraf
<b>204.</b>	Impact of Privatization of Power on Agriculture	Dr. Muhammad Yaqoob Bhatti
<b>205.</b>	Impact of Hydel Policy on the Power Tariff in Pakistan	Mohi-ud-Din Khan
<b>206.</b>	Impact of Power Policies on Social and Production Sector	Rehmatullah Javed
<b>Volume XXV</b>	<b>ENVIRONMENTAL PROTECTION AND RESOURCE CONSERVATION MAY, 1998</b>	
	Key Note Address	Dr. Izhar-ul-Haq
<b>207.</b>	Environmental and Social Soundness Assessment of 700 MW Thermal Power Plant	Javed A. Aziz and Rafiq Shad



208.	Nitrate, Fecal Coliform and Pesticides in Shallow Groundwater of Raiwind, Lahore, Pakistan	Shahzad Afzal, M. Farooq, M. Hammad Atique Khan, Muhammad Ismail Khan & Karamat Ali
209.	Pakistan in the Grip of Deficient Contemporary Environmental Technologies	Ahmad Nawaz Cheema
210.	Ghazi Barotha Power Project – A Case Study in Environmental Protection and Resource Reservation	Khurshid Ghias Ahmad
211.	Salinity Extent and its Management in Punjab	M. Azhar Javaid, Ch. Karamat Ali and Dr. Muhammad Javed
212.	Environment Conservation of Wetlands in Pakistan	Dr. Izhar-ul-Haq, Muhammad Arshad & Javaid Zaheer Iqbal
213.	Drainage and Environment Evaluation of Past Interventions and Future Strategies in Pakistan	Asrar-ul-Haq, Dr. Bagh Ali Shahid and Dr. Abdul Sattar Shakir
<b>M 214.</b>	Conservation of Water Resources of Pakistan	Dr. Izhar-ul-Haq and S. Tanveer Abbas
215.	Environment and Cancer	Mumtaz Hussain
216.	Eco-Impacts of Toxic Pesticides	Mumtaz Hussain
<b>Volume XXVI</b>	<b>NEED FOR HYDRO-POWER DEVELOPMENT TO SOLVE ENERGY CRISIS APRIL, 1999</b>	
	Key Note Address	Ch. Ghulam Hussain
217.	Hydro-Electric Power Potential Identified Under Pakistan-German Technical Cooperation with GTZ Additional to Potential on Main Stem of River Indus	Herbert Kuntz

<b>218.</b>	Role of Low Head Hydro Power Potential to Meet the Energy Crisis in Pakistan	Mahmood Ahmad Malhi and Muhammad Farooq Ahmad
<b>219.</b>	Available Data Banks and Information on Hydro-Power	Dr. J. J. Victoria
<b>220.</b>	Facilitation of Hydro-Power Development by Independent Power Producers	Riaz Nazir Tarar
<b>221.</b>	Feasibility Studies Ready for Involvement of Private Investment Under 1998 Power Policy	G. M. Iliass and Javed Rashid
<b>222.</b>	Development of Hydro-Power to Meet Energy Crisis of the Country	Ghulam Abbass and Fayyaz Asghar
<b>223.</b>	Manpower Requirement in Hydro-Power Engineering	Dr. J. J. Victoria and Dr. Muhammad Latif
<b>224.</b>	Optimization of Hydro-Electric Projects	Ch. Altaf-ur-Rehman
<b>Volume XXVII</b>	<b>TRANSPORTATION ENGINEERING AND RELATED ISSUES IN PAKISTAN</b>	
	<b>JANUARY, 2001</b>	
	Key Note Address	Ch. Ghulam Hussain
<b>225.</b>	Transport Policy and Allied Issues	Mian Ghias-ud-Din
<b>M 226.</b>	Rutting of Asphalt Concrete Pavements	Haroon I. Shami, Jim Hall
<b>227.</b>	Policy Option for Pakistan Railways	Syed Akhtar Ali Shah
<b>228.</b>	Indus Waterway as an International Outlet to Sea for Land Locked Central Asia	Mohi-ud-Din Khan
<b>229.</b>	An Introduction to Super Pave Asphalt Concrete Mix Design System	Haroon I. Shami, Jim Hall
<b>230.</b>	The Scenario of Public Transportation in Khuzdar	Aftab Ahmad Farooqi, Rab Nawaz and Muhammad Raza Mehdi
<b>231.</b>	Construction Costs of National Highways	Sadaqat Hasan Mir

<b>232.</b>	Lahore-Islamabad Motorway (M-2) Experience – Lessons and Improvements for Future Projects	Syed Waqar Haider
<b>Volume XXVIII</b>	<b>WATER CRISIS IN PAKISTAN AND SOLUTIONS DECEMBER, 2003</b>	
	Key Note Address	Engr. R. K. Anver
<b>233.</b>	Groundwater Resource of Pakistan and its Management	Muhammad Farooq Khan Niazi & Abdul Hafeez
<b>234.</b>	Role of Barani Areas in Mitigation of Water Crisis in Pakistan	Muhammad Iqbal Lone & Fayyaz Ul Hassan
<b>235.</b>	Indus River System Authority Water Resources Management Drought Mitigation Strategy	Mian Hafiz Ullah
<b>236.</b>	Reuse of Waste Water for Sustainable Management of Water Resources	Dr. M. A. Q. Jahangir Durrani
<b>237.</b>	Water Crisis in Pakistan and Solutions	Fateh Ullah Khan
<b>238.</b>	Anatomy of High Power Tariff	Saeed Akhtar Niazi
<b>239.</b>	Mitigating Water Shortage by Making Tarbela a Sustainable Reservoir	Amjad Agha and Akram Khan
<b>240.</b>	Demographic Influences on Land and Water Resources and Food Sustainability Concerns : Vision 2050	M. Azhar Javed, M. Tariq Yamin, Ch. Karamat Ali, Rashid Minhas
<b>241.</b>	A Transparent Plan for Meeting Water Shortage in Pakistan	Mohi-ud-Din Khan
<b>M 242.</b>	Development of Surface Water Resources	Dr. Izhar-ul-Haq and M. Mushtaq Chaudhry
<b>Volume XXIX</b>	<b>URBAN DEVELOPMENT WITH FOCUS ON HOUSING DECEMBER, 2006</b>	
	Key Note Address	Engr. Shahzad Jamil

		Sheikh
<b>M 243.</b>	Urban Development with Focus on Housing	Sheikh Abdur Rasheed
<b>244.</b>	Housing Issues in Urban Development of Pakistan	Prof. Dr. Syed Shabih-ul-Hassan Zaidi
<b>245.</b>	Urban Development in Pakistan – Beyond Housing	Maqbool Illahi
<b>246.</b>	Urban Planning in Pakistan	Manzoor Ahmad
<b>247.</b>	Urban Development Planning of Mega Cities a must Integrated Master Plan for Lahore – 2021	Sabir P. Chohan
<b>248.</b>	Urban Housing Development in Pakistan – A Case Study of Lahore Metropolitan Area	Prof. Dr. Ihsan-ullah Bajwa, Ijaz Ahmad, Zareen Khan
<b>249.</b>	PHATA – Land Use Plan	Kamil Khan Mumtaz
<b>250.</b>	Low Income Housing Strategies in Pakistan with Focus on Urban Housing	Muhammad Ali Tirmizi
<b>251.</b>	Performance of Masonary Buildings During 8th October 2005 Hazara – Kashmir Earthquake in Pakistan	S. H. Farooq, Prof. Dr. M. Ilyas
<b>252.</b>	Urban Development with Focus on Housing	Abdul Halim Paracha
<b>Volume XXX</b>	<b>PROCUREMENT AND CONTRACT MANAGEMENT</b>	
	<b>MARCH, 2008</b>	
	Key Note Address	Engr. R. K. Anver
<b>253.</b>	Evaluation of Procurement Procedures for Works and Goods in Pakistan	Ch. Ghulam Hussain, S. A. Kasmani
<b>254.</b>	Contribution of Pakistan Engineering Council for Standardization of Procurement Documents and Procedures	Mahboob ul Muzaffar
<b>255.</b>	Overview of the 1999 FIDIC Contract Forms and	Mushtaq Ahmad Smore

	the MDB Contract	
<b>256.</b>	Dispute Resolution Under Engineering Contracts	Balal A. Khwaja
<b>257.</b>	Effects of WTO Regulations on Construction and Engineering Services of Pakistan	M. Mazhar-ul-Islam
<b>258.</b>	Procurement of Consultants’ Services	Ijaz Ahmad Khan
<b>259.</b>	Need for Updation of Procurement and Contract Administration	Abdul Qayyum
<b>Volume XXXI</b>	<b>SYMPOSIUM ON “GENESIS OF POWER CRISIS AND ITS MANAGEMENT IN PAKISTAN”</b>	
	<b>JULY, 2009</b>	
	Key Note Address	Engr. R. K. Anver
<b>260.</b>	Role of Hydropower in Management of Power Crisis in Pakistan	Dr. Izhar ul Haq, Engr. Khawar Munir
<b>261.</b>	Introduction of New Technologies for Renewables and Demand side Management in the Power Sector in Pakistan	Prof. Dr. Zahir Ahmad Fikri
<b>262.</b>	Genesis of Power Crisis and its Management in Pakistan	Amjad Agha
<b>263.</b>	Power Crisis, Causes and Management	Engr. Riaz Ahsan Baig
<b>264.</b>	Self Generation to Combat Power Crisis	Dr. Engr. Javed Yunas Uppal
<b>265.</b>	Genesis of Power Crisis and its Management in Pakistan – Public Private Partnership to Mitigate Power Crisis	Dr. Allah Bakhsh Sufi, Zahid Hussain Khan, M. Javaid Iqbal
<b>266.</b>	Genesis of Power Crisis and its Management in Pakistan	Engr. Tahir Basharat Cheema
<b>267.</b>	Natural Gas Transmission and Distribution Infrastructure Development in Pakistan and its Role in Power Generation	A. Rashid Lone
<b>268.</b>	Barriers in Renewable Energy Deployment in Pakistan	Syed Tahawar Hussain

<b>269.</b>	Renewable Energies – An Ultimate Solution to Overcome Power Crisis of Pakistan	Muhammad Ahmad Riaz, Sana Amin
<b>Volume XXXII</b>	<b>INTERNATIONAL WORKSHOP ON FLOOD MARCH, 2011</b>	
<b>270.</b>	Holistic Approach to Selection of Design Floods for Large Dams	Mr. Kamran Emami
<b>271.</b>	Management of High Floods	Dr. Izhar ul Haq
<b>272.</b>	Flood 2010: The Event, Issues and Way Forward	Engr. Asrar-ul-Haq, Engr. S. Mansoob Ali Zaidi
<b>273.</b>	Adaptive Flood Management	Mr. Kamran Emami
<b>274.</b>	Flood 2010 – A Probe, A Quest	Usman-e-Ghani
<b>275.</b>	Flood 2010 - Losses and Future Scope of the KP Dairy Sector	Prof. Dr. M. Subhan Qureshi
<b>276.</b>	Experiences in Flood Emergency Action Plan	Dr. Mohammad Ali Banihashemi
<b>277.</b>	Re-examining Flood Management Measures for Sindh	Iqtidar H. Siddiqui
<b>278.</b>	Promoting Creativity and Innovation in Flood Projects by Value Engineering	Mr. Kamran Emami
<b>279.</b>	Provision of Safe Drinking Water for Flood Affected Areas	Dr. Muhammad Anwar Baig, Irfan Ahmad Qureshi
<b>280.</b>	Pakistan Flood 2010: An Opportunity to Build Back Better	Prof. Dr. S. Shabih-ul- Hassan Zaidi
<b>281.</b>	Floods in Pakistan 2010 (Lesson Learned & Way Forward) in Agriculture Sector (A Success Story)	Prof. Dr. M. Ashfaq (T.I), Dr. Ehsanullah
<b>282.</b>	Flood 2010 in Pakistan and Its Damages	Ch. Ghulam Qadir
<b>283.</b>	Management of Flood 2010: Lessons Learnt and Improvement Strategies	Rab Nawaz
<b>284.</b>	Yangtze Floodplain Restoration and Basin	Dr. Lifeng Li

Management – Progress and Lessons Learned  
Post The 1998 Flood

<b>Volume XXXIII</b>	<b>SYMPOSIUM ON “CHANGING ENVIRONMENTAL PATTERN AND ITS IMPACT WITH SPECIAL FOCUS ON PAKISTAN” JULY, 2011</b>	
<b>285</b>	Changing Climatic Patterns and their Impacts with Special Focus on Pakistan	Jawed Ali Khan
<b>286</b>	Integrated Water Resource Management in Pakistan	Dr. Allah Bakhsh Sufi, Zahid Hussain, Syed Javed Sultan, Imran Tariq
<b>M-287</b>	Global Warming in the context of Pakistan: Major Concerns and Remedial Strategies	M. Munir Sheikh, M. Mohsin Iqbal, Ghazanfar Ali, Arshad M. Khan
<b>288</b>	Climate Change and its Realities for Pakistan	Ali Hasnain Sayed
<b>289</b>	Change of Environmental Patterns and its Impact with Special Reference of Pakistan	Engr. Raqib Khan
<b>290</b>	Climate Change and its Impact with Special Focus in Pakistan	Zia Mustafa
<b>291</b>	Aquatic Bio Diversity Management of Khwar Projects – A Case Study	Attia Dastgir, Ishteqaq A. Kaukab, Dr. Muhammad Siddique
<b>292</b>	Economic Impact of Climate Change on Agricultural Sector of Punjab	Uzma Hanif, Dr. Rafique Ahmad, Dr. Kauser Abdullah Malik, Dr. Shabib Haider Syed
<b>293</b>	Climate Change: Emissions and Sinks of Greenhouse Gases in Pakistan	Akhtar Nawaz Khan, B.M. Ghauri, R. Jilani, Said Rahman
<b>Volume XXXIV</b>	<b>SYMPOSIUM ON “EMERGING PHENOMENON OF UNTIMELY RAINS / FLOODS – 2011 IN PAKISTAN” DECEMBER, 2012</b>	
	Key Note Address	Engr. Iftikhar-ul-Haq

<b>294</b>	Adaptation to Untimely Floods	Kamran Emami and Saeed Pourshahidi
<b>295</b>	Estimating Flood – 2010-2011 Extent Using Satellite Remote Sensing Data in Pakistan	Badar Ghauri
<b>296</b>	“Emerging Phenomenon of Untimely Rain Floods in Sindh and Ways to Mitigate their Damaging effects	Jam Mitha Khan
<b>M-297</b>	An Appraisal of 2011 – Rain / Flood Damages in Sindh	Asjad Imtiaz Ali, Javeed Iqbal Bokhari and Qazi Tallat M. Siddiqui
<b>298</b>	Multihazard Vulnerability Scenario for Disaster Risk Management in Karachi	Yawer Ansari and Amir Sohail
<b>299</b>	Unprecedented 2011 Rains / Floods in Pakistan and Actions Needed	Engr. Zafar Iqbal
<b>300</b>	Rainfall Deluge Management – A Case Study of Sindh Province in Pakistan	Muhammad Idris Rajput
<b>301</b>	Disastrous Effects of Rain 2011 in Sindh, Pakistan	Dr. Bakhshal Khan Lashari and Zarif Iqbal Khero
<b>302</b>	Managing Floods in Pakistan : From Structural to Non-Structural Measures	Dr. Asad Sarwar Qureshi
<b>303</b>	Integration of Disaster Risk Reduction (DRR) into Water Sector	Ahmed Kamal
<b>304</b>	Pakistan Proposed Approach to Flood Control and Management Based on 2010 Experience	Engr. Riaz Nazir Tarar
<b>Volume XXXV</b>	<b>SYMPOSIUM ON “ROLE OF ENGINEERS IN ECONOMIC DEVELOPMENT AND POLICY FORMULATION IN PAKISTAN”</b> <b>DECEMBER, 2013</b>	
	Key Note Address	Engr. Iftikhar-ul-Haq
<b>305</b>	Role of Engineers in Economic Development and	Engr. Abdul Khaliq Khan,



	Policy Formulation	Dr. Izhar-ul-Haq and Umair Manan
<b>306</b>	Role of Engineers in Economic Development and Policy Formulation Focus on Major Water Storages	Engr. Riaz Nazir Tarar
<b>307</b>	Impediments in the Role of Engineers in Economic Development	Dr. Engr. Javed Yunas Uppal
<b>308</b>	The Role of Engineers in Economic Development and Policy Formulation (A Wandering Habitué / A Thrust in Baffle)	Engr. Usman-e-Ghani
<b>309</b>	Role of Engineers in Economic Development and Policy Formulation	Sardar Muhammad Tariq
<b>310</b>	Role of Engineers in Economic Development and Policy Formulation	Dr. Muhammad Nadeem
<b>311</b>	The Role of Engineers in Sustainable Development	Dr. Asad Sarwar Qureshi and Atif Nawab
<b>312</b>	Role of Engineers in the National Economic Development Prosperity	Dr. Muhammad Anwar Baig and Nauman A. Baig
<b>313</b>	Role of Engineers in Economic Development and Policy Making of a Country	Sohail Ali Naqvi and Ali Hasnain Syed