
PROF. DR. ATTA-UR-RAHMAN, *FRS*

Nishan-i-Imtiaz, Hilal-i-Imtiaz, Sitara-i-Imtiaz, Tamgha-i-Imtiaz

PRESIDENT

*Network of Academies of Science in Countries of the Organization of Islamic Conference
(NASIC)*

PROFESSOR /

Patron-in-Chief

**International Center for Chemical and Biological Sciences
(H. E. J. Research Institute of Chemistry and
Dr. Panjwani Center for Molecular Medicine and Drug Research)
University of Karachi, Karachi**

ACADEMIC CAREER

DEGREE	YEAR	UNIVERSITY	DIVISION
Overseas School Certificate	1958	Cambridge	1st Division (1st position)
Overseas Higher School Certificate	1960	Cambridge	"A" Level (1st position)
B.Sc. (Hons.) (<i>Chemistry</i>)	1963	Karachi	1st Division (2nd position)
M.Sc. (<i>Organic Chemistry</i>)	1964	Karachi	1st Division (1st position)
Ph.D. (<i>Organic Chemistry</i>)	1968	Cambridge University (Kings College)	Title of Thesis: "Synthetic Studies in the Indole Alkaloid Field" (Supervisor: Dr. J. Harley Mason)
Sc.D.	1987	Cambridge University	
D.Sc.	2003	Sir Syed Engineering University, Karachi	
D.Sc.	2004	Gomal University	
D.Sc.	2005	University of Karachi	
Dr. Edn.	2007	Coventry University, UK	
D.Sc.	2010	University of Bradford, UK	
D.Sc.	2010	Asian Institute of Technology, Bangkok	
D.Sc.	2011	University of Technology Mara (UiTM), Malaysia	

EXPERIENCE

POST	YEAR	INSTITUTION	NATURE OF DUTIES
Lecturer	1964	University of Karachi	Teaching
Commonwealth Scholar	1965-68	Kings College, Cambridge University	Research for Ph.D.
Assistant Professor	1969	University of Karachi	Teaching/Research
Fellow	1969-73	Fellow (Don) Kings College, Cambridge University	Teaching/Research
Associate Professor	1974-76	Postgraduate Institute of Chemistry, University of Karachi	Research/Guiding M.Phil., Ph.D. Students
Co-Director (BPS-20)	1977-80	H. E. J. Research Institute of Chemistry, University of Karachi	a) Research Supervisor of M.Phil./Ph.D. Students b) Research/Administration
D.A.A.D. Fellow	1979	University of Tuebingen, Germany	Teaching/Research
Professor & Co-Director	1981-90	H. E. J. Research Institute of Chemistry, University of Karachi	a) Research Supervisor of M.Phil./Ph.D. Students b) Research, Administration, Teaching
Director	1990-September 2008	-do-	-do
Coordinator General	4 th July 1996-till July 03, 2012	COMSTECH (Organization of Islamic Conference Standing Committee on Scientific and Technological Cooperation), Islamabad	a) Heading Ministerial Committee comprising 57 Ministries of Science & Technology of OIC member countries. b) Promote scientific collaboration between 57 OIC member countries. c) Strengthen institutional infrastructure in the OIC region.

Federal Minister for Science & Technology and Information Technology	14 th March, 2000 to Oct., 2002	Ministry of Science and Technology	Administration / Planning / Development
Federal Minister (In-charge) Ministry of Education	July 2002 to Oct. 2002	Ministry of Education	Administration / Planning / Development
Federal Minister (In-charge), Ministry of Science and Technology and Adviser to the Prime Minister for Science and Technology	2003-04	Ministry of Science & Technology Government of Pakistan, Islamabad	Administration / Planning / Development
Federal Minister/Chairman	Oct. 2002- Sep. 2008	Higher Education Commission Government of Pakistan, Islamabad	Administration / Planning / Development
Advisor to the Prime Minister for Science and Technology for Science and Technology	Nov. 2005- 2007	Ministry of Science and Technology	Administration / Planning / Development
Patron - in – Chief,	Sept 2008 – till date	International Center for Chemical and Biological Sciences	Administration / Planning / Development
Member Syndicate	2018- 2021	University of Karachi	Administration / Planning / Development
Co-Chairman of Prime Minister Task Force	2018 - Present		Information Technology / Telecommunications
Vice-Chairman of Prime Minister Task Force	2019 - Present		Technology Driven Knowledge Economy
Chairman of Prime Minister Task Force	2019 - Present		Science and Technology

RESUME

Prof. Atta-ur-Rahman has over **1122 publications** in the fields of organic chemistry including **43 patents, 270 books** and **70 chapters in books** published by major U.S. and European presses and **764 research publications** in leading international journals. On the basis of his researches, **82 students have been awarded Ph.D. degrees** in various areas of natural product chemistry whose names and titles of thesis are given on pages.

(a) Isolation and Structure Elucidation of Bioactive Compounds

Atta-ur-Rahman's work on the isolation and structure elucidation of bioactive substances from medicinal plants as well as marine plants and animals has resulted in the discovery of several hundred new/novel natural products many of which have exhibited exciting biological activities including anti-oxidant, anti-epileptic, anti-leishmania, anti-AIDS, immunomodulating, anti-asthmatic, analgesic, nematocidal and anti-cancer activities. These are exemplified by researches on cholinesterase - inhibiting steroidal alkaloids from *Sarcococca saligna* with potential applications in Alzheimer's disease [*Helv. Chim. Acta*, 87, 439-448 (2004)], new α -glucosidase inhibitors from *Ferula mongolica*, [*Helv. Chim. Acta.*, 84, 2409 (2001)], anti-fungal diterpenoid alkaloids from *Delphinium denudatum*, [*J.Nat. Prod.*,60, 472-474 (1997)], anti-bacterial steroidal alkaloids from *Sarcococca saligna*, [*J. Nat. Prod.*,61, 202-206 (1998)] etc. A number of binary and dimeric alkaloids have also been reported from terrestrial and marine sources.

(b) Development of New Methods for Structure Elucidation

A new convenient method was developed for the determination of absolute configurations of chiral carboxylic acids, α -amino acids, amino alcohols, polynucleic acids and ephedrine isomers by partially or totally restricting their conformational flexibility through complexation with trinuclear metal complexes $[M_3O(O_2CCH_3)_6L_3]^n$ where M = Fe, Cr, Mn, Rh, Ru etc., L = water or pyridine and n = 0 or 1, [*J. Am. Chem. Soc.*,115, 12533-12544 (1993)]. The method was extended to peptides, [*Nat. Prod. Lett.*,13(2), 131 (1999)]. He has also developed correlations between structures of steroidal alkaloids with their specific rotations, [*Tetrahedron*, 42(20), 5747 (1986)].

(c) Synthetic Transformations of Biologically and Biosynthetically Interesting Compounds

An intriguing challenge in the late 60's / early 70's was the biosynthetic origin of the tetracyclic indole moiety of vinblastine/vincristine, anti-tumor alkaloids of *Catharanthus roseus* (marketed by Ely Lilly & Co. for acute leukaemia in children, Hodgkins disease and other cancers under the trade names of "Velbe" and "Oncovin"). It was believed that such tetracyclic indoles would exist in the plant but no such tetracyclic indoles had been isolated. Atta-ur-Rahman first proposed that vinblastine may arise from a pentacyclic precursor alkaloid such as catharanthine. He demonstrated the conversion of pentacyclic catharanthine into the tetracyclic "cleavamine" moiety in high yields, leading to the first synthetic vinblastine derivative [*Pak. J. Sci. Ind. Res.*, 14(6), 487 (1971)]. This approach (i.e. using catharanthine as the precursor) became the preferred procedure for subsequent synthetic approaches to these anti-leukemic alkaloids. A biomimetic synthesis of vinblastine was subsequently developed and patented, [*Pakistan Patent No. 126852*, dated 14-2-1978]. Interesting synthetic transformations /rearrangements discovered include the high yield fragmentation of the hexacyclic 16-*epi*-19-*S*-vindoline to a tricyclic indole, [*Heterocycles*, 20(1), 59 (1983)]. The work of the Nobel Laureate Sir Robert Robinson & co-workers on the chemistry of harmaline was also corrected and it was shown that an interesting ring fragmentation occurs with N_b-acetyl harmaline under certain conditions, [*J. Chem. Soc. Perkin Trans. I.*, 736 (1972)] and (No. 153), [*J. Chem. Soc. Perkin Trans. I.*, (5), 731 (1972)]; [*Chem. Abs.*, 76, 127211u (1972)].

BOOKS & JOURNALS WRITTEN OR EDITED

Prof. Atta-ur-Rahman has written or edited **210 books**. His first book entitled “*Biosynthesis of Indole Alkaloids*” was published by Oxford University Press, England as Vol. 7 of their prestigious “*International Series of Monographs in Chemistry*” in 1983. His book entitled “*Nuclear Magnetic Resonance Spectroscopy*” published by Springer-Verlag, New York in 1986, was the first text book to have a detailed discussion on 2D-NMR spectroscopy. Its success in USA and Europe prompted it to be translated into Japanese language by two Japanese Professors, Prof. H. Hirota from Tokyo University and Prof. Motoo Tori from Tokushima Bunri University and the Japanese language version was published in May 1988 by Springer-Verlag, Tokyo. His book entitled “*Stereoselective Synthesis in Organic Chemistry*”, published by Springer-Verlag, Germany was appreciated by the Nobel Laureate Sir D.H.R. Barton, who wrote its Foreword and called it “a monumental tome”. His book entitled “*One and Two Dimensional NMR Spectroscopy*” was published by Elsevier Science Publishers, Amsterdam in Netherlands. His book on NMR Spectroscopy entitled “*Solving Problems with NMR Spectroscopy*”, was published by Academic Press, USA, in 1996 the foreword of which was contributed by Nobel Laureate Prof. R. R. Ernst of Switzerland. A revised edition of the same book has recently been published and foreword of it has been written by Nobel Laureate Prof. R. R. Ernst. Prof. Atta-ur-Rahman is the editor of a prestigious series of books being published by Elsevier Science Publishers, Amsterdam, Netherlands (September,2015). This series is entitled “*Studies in Natural Products Chemistry*” and volumes 1 to 55 of the series (ten volumes on stereoselective synthesis, two on structure elucidation, seven on structure and chemistry and fourteen on bioactive natural products) have been published by Elsevier during 1988-2015. Another series entitled “*¹³C-NMR of Natural Products*” is also being published under the editorship of Prof. Atta-ur-Rahman and Prof. V.U. Ahmad, and two volumes have so far been published by Plenum Press (U.S.A.). Three volumes of another series of books entitled, “*Handbook of Natural Products Data*”, have also been published by Elsevier, The Netherlands under the editorship of Prof. Atta-ur-Rahman (one of these is co-edited with Prof. V.U. Ahmad).

Prof. Atta-ur-Rahman is currently editing the following international science journals:

- 1) Current Medicinal Chemistry (Impact Factor 3.5)
- 2) Current Organic Chemistry (Impact Factor 2.0)
- 3) Medicinal Chemistry (Impact Factor 1.5)
- 4) Mini-Reviews in Organic Chemistry (Impact Factor 1.4)

Issues dedicated to Prof. Dr. Atta-ur-Rahman on his 70th Birthday

S. No.	NAME OF JOURNAL	COUNTRY
(1).	Natural Product Research	UK
(2).	Fitoterapia	Netherlands
(3).	Arkovic	Netherlands
(4).	Mini-Reviews in Organic Chemistry	Netherlands
(5).	Current Bioactive Compounds	Netherlands
(6).	Current Nanoscience	Netherlands
(7).	Current Organic Synthesis	Netherlands
(8).	Current Medicinal Chemistry	Netherlands
(9).	Letters in Drug Design & Discovery	Netherlands
(10).	Current Organic Chemistry	Netherlands
(11).	Letters in Organic Chemistry	Netherlands
(12).	Medicinal Chemistry	Netherlands
(13).	Current Pharmaceutical Analysis	Netherlands
(14).	Mini-Reviews in Medicinal Chemistry	Netherlands

Prof. Atta-ur-Rahman has over **1122 publications** in the fields of organic chemistry including **43 patents**, **270 books** and **70 chapters in books** published by major U.S. and European presses and **764 research publications** in leading international journals.

BOOKS

S. NO	NAME OF BOOKS	COUNTRY
1.	" <i>Biosynthesis of Indole Alkaloids</i> ", Atta-ur-Rahman and A. Basha, Clarendon Press , Oxford(1983).	UK
2.	" <i>Pakistan EncyclopaediaPlanta Medica</i> ," Vol. I , Atta-ur-Rahman , H.M. Said and V.U. Ahmad, Hamdard Foundation Press , Karachi (1986).	Pakistan
3.	" <i>Natural Product Chemistry</i> ", Atta-ur-Rahman , Springer-Verlag , Heidelberg (1986).	Germany
4.	" <i>New Trends in Natural Products Chemistry</i> ", Atta-ur-Rahman and P.W. Le Quesne, Elsevier Science Publishers ,Amsterdam (1986).	The Netherlands
5.	" <i>Pakistan EncyclopaediaPlanta Medica</i> ", Vol. 2 , H.M. Said, V.U. Ahmad and Atta-ur-Rahman , Hamdard Foundation Press ,Karachi (1986).	Pakistan
6.	" <i>Nuclear Magnetic Resonance</i> ", Atta-ur-Rahman , Springer-Verlag , New York(1986). Japanese Translation by Prof. Motoo Tori and Prof. Hiroshi Hirota published by Springer-Verlag , Tokyo (1988)].	USA
7.	" <i>Recent Advances in Natural Product Chemistry</i> ", Atta-ur-Rahman , Shamim Printing Press , Karachi (1987).	Pakistan
8.	" <i>Perspectives in Natural Products Chemistry</i> ", Atta-ur-Rahman and P.W. Le Quesne, Shamim Printing Press , Karachi (1988).	Pakistan
9.	" <i>Natural Products Chemistry, IIP</i> ", Atta-ur-Rahman and P. W. Le Quesne, Springer-Verlag , Heidelberg (1988).	Germany
10.	<i>Studies in Natural Products Chemistry "Stereoselective Synthesis"</i> Vol. 1 , Part A, Ed. Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam (1988).	The Netherlands

11.	<i>Studies in Natural Products Chemistry, "Structure Elucidation",</i> Vol. 2, Part A, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1988).	The Netherlands
12.	<i>Studies in Natural Products Chemistry, "Stereoselective Synthesis,"</i> Vol. 3, Part B, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1989).	The Netherlands
13.	<i>Studies in Natural Products Chemistry, "Stereoselective Synthesis",</i> Vol. 4, Part C, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1989).	The Netherlands
14.	<i>Studies in Natural Products Chemistry, "Structure Elucidation".</i> Vol. 5, Part B, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1989).	The Netherlands
15.	<i>"One and Two Dimensional Nuclear Magnetic Resonance Spectroscopy",</i> Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1989).	The Netherlands
16.	<i>"Pakistan Encyclopaedia Planta Medica",</i> Vol. 3, Ed. V.U. Ahmad, and Atta-ur-Rahman, U.G.C. Press , Islamabad (1989).	Pakistan
17.	<i>"Frontiers in Natural Products Chemistry",</i> Ed. Atta-ur-Rahman, Shamim Printing Press , Karachi (1990).	Pakistan
18.	<i>Studies in Natural Products Chemistry, "Stereoselective Synthesis",</i> Vol. 6, Part D, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1990).	The Netherlands
19.	<i>Studies in Natural Products Chemistry, "Structure and Chemistry",</i> Vol. 7, Part A, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1990).	The Netherlands
20.	<i>Handbook of Natural Products Data, "Diterpenoid and Steroidal Alkaloids",</i> Vol. 1, Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1990).	The Netherlands
21.	<i>Studies in Natural Products Chemistry, "Stereoselective Synthesis",</i> Vol. 8, Part E, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1991).	The Netherlands
22.	<i>Studies in Natural Products Chemistry, "Structure and Chemistry" Vol. 9, Part B, Ed. Atta-ur-Rahman, Elsevier Science Publishers, Amsterdam (1991).</i>	The Netherlands

23.	<i>¹³C-NMR of Natural Products, "Monoterpenes and Sesquiterpenes"</i> , Vol. 1 , Atta-ur-Rahman and V.U. Ahmad, Plenum Press , New York (1992).	USA
24	<i>¹³C-NMR of Natural Products, "Diterpenes"</i> , Vol. 2 , Atta-ur-Rahman and V.U. Ahmad, Plenum Press , New York (1992).	USA
25.	<i>Studies in Natural Products Chemistry, "Stereoselective Synthesis"</i> , Vol. 10 , Part F, Ed. Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam (1992).	The Netherlands
26.	<i>Studies in Natural Products Chemistry, "Stereoselective Synthesis"</i> , Vol. 11 , Part G, Ed. Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam (1992).	The Netherlands
27.	<i>"Advances in Natural Product Chemistry"</i> , Ed. Atta-ur-Rahman , Proceedings of the Fifth International Symposium and Pakistan-US Binational Workshop on Natural Product Chemistry, Karachi, 4-9 January, 1992, Harwood Academic Publishers , Chur (1992).	Switzerland
28.	<i>"Current Frontiers in Natural Product Chemistry"</i> Ed. Atta-ur-Rahman , Proceedings of the Fifth International Symposium and Pakistan-U.S. Binational Workshop on Natural Product Chemistry, Karachi, Pakistan, January 5-9, 1992, Harwood Academic Publishers , Amsterdam (1992).	The Netherlands
29.	<i>"Studies in Natural Products Chemistry, Stereoselective Synthesis"</i> , Vol. 12 , Ed. Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam (1993).	The Netherlands
30.	<i>Studies Natural Products Chemistry, "Bioactive Natural Products"</i> , Vol. 13 , Part A, Ed. Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam (1993).	The Netherlands
31.	<i>"Stereoselective Synthesis in Organic Chemistry"</i> , Atta-ur-Rahman and Z. Shah, Springer-Verlag , New York (1993).	USA
32.	<i>"Studies in Natural Product Chemistry, Stereoselective Synthesis"</i> , Vol. 14 , Ed. Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam (1994).	The Netherlands
33.	<i>"Handbook of Natural Products Data: Pentacyclic Triterpenes"</i> by V.U. Ahmad and Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam (1994).	The Netherlands

34.	“ <i>Handbook of Natural Products Data, Isoquinoline Alkaloids</i> ”, Vol. 3, Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1994).	The Netherlands
35.	<i>Handbook of Natural Products Data, Pentacyclic Triterpenoids</i> ”, Vol. 2, Viqar Uddin Ahmad and Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1994).	The Netherlands
36.	“ <i>Pure and Applied Chemistry</i> ”, Ed. Atta-ur-Rahman, Proceedings of the 19th International Symposium on the Chemistry of Natural Products, 16-20 January, 1994, Blackwell Scientific Publications, Oxford, Vol. 66 (10/11), 1967, (1994).	UK
37.	“ <i>Studies in Natural Products Chemistry, Structure and Chemistry</i> ”, Vol. 15, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1995).	The Netherlands
38.	“ <i>Studies in Natural Products Chemistry, Stereoselective Synthesis</i> ”, Vol. 16, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1995).	The Netherlands
39.	“ <i>Studies in Natural Products Chemistry, Structure and Chemistry</i> ”, Vol. 17, Ed. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (1995).	The Netherlands
40.	“ <i>NMR Spectroscopy</i> “, Atta-ur-Rahman and M. Iqbal Choudhary, Acadiic Press , San Diego (1995).	USA
41.	“ <i>Year Book of Asymmetric Synthesis 1991</i> ”, Khurshid Zaman, Atta-ur-Rahman and M. Saleh Shekhani, Kluwer Acadiic Publishers , Dordrecht (1995).	The Netherlands
42.	“ <i>Recent Discoveries in Natural Products Chemistry</i> ”, Eds. Atta-ur-Rahman , M.I. Choudhary and M.S. Shekhani, Elite Publishers , Karachi (1995).	Pakistan
43.	“ <i>Solving Problis with Nuclear Magnetic Resonance Spectroscopy</i> ” Atta-ur-Rahman and M.I. Choudhary, Acadiic Press , New York (1996).	USA
44.	“ <i>Modern Methods in Carbohydrate Synthesis</i> ”, Ed. S.H. Khan and R.A. O’Neill, Series Editor Atta-ur-Rahman , Vol. 1, Harwood Acadiic Publishers , Amsterdam (1996).	The Netherlands
45.	“ <i>Progress in Medicinal Chemistry</i> ”, Ed. M.I. Choudhary, Vol. 1, Ed. Atta-ur-Rahman , Series Harwood Acadiic Publishers , Amsterdam (1996).	The Netherlands

46.	“ <i>Biological Inhibitors</i> ”, Ed. M.I. Choudhary, Ed. Atta-ur-Rahman , Vol. 2, Series Harwood Acadiic Publishers , Amsterdam (1996).	The Netherlands
47.	“ <i>Studies in Natural Products Chemistry, Structure and Chemistry</i> ”, Vol. 18, Ed. Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam (1996).	The Netherlands
48.	“ <i>Recent Discoveries in Natural Product Chemistry</i> ” (Proceedings of the 19th IUPAC Symposium on the Chemistry of Natural Products, Jan., 1994, Karachi), Atta-ur-Rahman , M. Iqbal Choudhary and M. S. Shekhani, Elite Publishers, Karachi (1996).	Pakistan
49.	“ <i>Studies in Natural Products Chemistry, Structure and Chemistry</i> ”, Vol. 19, Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam (1995).	The Netherlands
50.	“ <i>Indole Alkaloid</i> ”, Eds. Atta-ur-Rahman and A. Basha, Vol. 2, Harwood Acadiic Publishers , Amsterdam (1998).	The Netherlands
51.	“ <i>New Trends in Natural Product Chemistry</i> ” Ed. Atta-ur-Rahman and M. I. Choudhary, Harwood Acadiic Publishers , Amsterdam (1998).	The Netherlands
52.	“ <i>New Advances in Analytical Chemistry</i> ”, Ed. Atta-ur-Rahman , Vol. 1 & 2, Harwood Acadiic Publishers , Amsterdam (1999).	The Netherlands
53.	“ <i>Manual of Bioassay Techniques for Natural Product Chiists</i> ”, Eds. Atta-ur-Rahman , M.I. Choudhary and W. Thomsen, Harwood Acadiic Publishers , Amsterdam (1999).	The Netherlands
54.	“ <i>Studies in Natural Product Chemistry, (Structure and Chemistry)</i> ”, Vol. 20, Ed. Atta-ur-Rahman , Elsevier Science Publishers , Amsterdam(1999).	The Netherlands
55.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Secretariat, Vol. I, Islamabad (1997).	Pakistan
56.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Secretariat, Vol. II, Islamabad (1998).	Pakistan
57.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Secretariat, Vol. III, Islamabad (1999).	Pakistan

58.	<i>“Directory of Active Scientists in OIC Members States and Their Recent Scientific Publications”</i> , Eds. A. Dar and Atta-ur-Rahman , COMSTECH Secretariat, Vol. IV , Islamabad (2000).	Pakistan
59.	<i>“Studies in Natural Products Chemistry, (Bioactive Natural Products)”</i> Vol. 21 , Eds. Atta-ur-Rahman , Elsevier Science Publishers, Amsterdam (2000).	The Netherlands
60.	<i>“Studies in Natural Products Chemistry, (Bioactive Natural Products)”</i> Eds. Vol. 22 , Atta-ur-Rahman , Elsevier Science Publishers, Amsterdam (2000).	The Netherlands
61.	<i>“Studies in Natural Products Chemistry, (Bioactive Natural Products)”</i> Vol. 23 , Eds. Atta-ur-Rahman , Elsevier Science Publishers, Amsterdam (2000).	The Netherlands
62.	<i>“Studies in Natural Products Chemistry, (Bioactive Natural Products)”</i> Vol. 24 , Eds. Atta-ur-Rahman , Elsevier Science Publishers, Amsterdam (2001).	The Netherlands
63.	<i>“Studies in Natural Products Chemistry, (Bioactive Natural Products)”</i> Vol. 25 , Eds. Atta-ur-Rahman , Elsevier Science Publishers, Amsterdam (2001).	The Netherlands
64.	<i>“Recent Advances in Natural Product Chemistry</i> , Eds. Atta-ur-Rahman and M.I. Choudhary, Harwood Academic Publishers , Amsterdam (1987).	The Netherlands
65.	<i>“Studies in Natural Products Chemistry, (Bioactive Natural Products)”</i> Vol. 26 , Eds. Atta-ur-Rahman , Elsevier Science Publishers, London (2002).	UK
66.	<i>“New Advances in Analytical Chemistry”</i> , Ed. Atta-ur-Rahman , Vol. 3 , Taylor and Francis , London(2002).	UK
67.	<i>“Studies in Natural Products Chemistry, (Bioactive Natural Products)”</i> Vol. 27 , Eds. Atta-ur-Rahman , Elsevier Science Publishers, London (2002).	UK
68.	<i>“Studies in Natural Products Chemistry, (Bioactive Natural Products)”</i> Vol. 28 , Eds. Atta-ur-Rahman , Elsevier Science Publishers, Amsterdam (2002).	UK
69.	<i>“Natural Product Chemistry At the Turn of the Century”</i> , Eds. Atta-ur-Rahman , M. Iqbal Choudhary, K. M. Khan, Print Arts Publishers , Karachi (2002).	Pakistan

70.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ” Vol. 29 , Eds. Atta-ur-Rahman , Elsevier Science Publishers, Amsterdam (2003).	The Netherlands
71.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Islamabad, Vol. V (Part A) (2002).	Pakistan
72.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Islamabad, Vol. V (Part B) (2002).	Pakistan
73.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Secretariat, Vol. V (Part C) (2002).	Pakistan
74.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Islamabad, Vol. VI (Part A) (2002).	Pakistan
75.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Islamabad, Vol. VI (Part B) (2003).	Pakistan
76.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Secretariat, Vol. VII (Part A) (2003).	Pakistan
77.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Islamabad, Vol. VII (Part B) (2003).	Pakistan
78.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Islamabad, Vol. VII (Part C) (2003).	Pakistan
79.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Islamabad, Vol. VIII (Part A) (2004).	Pakistan
80.	“ <i>Directory of Active Scientists in OIC Mibers States and Their Recent Scientific Publications</i> ”, Eds. A. Dar and Atta-ur-Rahman , COMSTECH Islamabad, Vol. VIII (Part B) (2004).	Pakistan
81.	“ <i>Frontiers in Medicinal Chemistry (online)</i> ” Eds. Atta-ur-Rahman , Allan B. Reitz, M. Iqbal Choudhary and Cheryl P.	The Netherlands

	Kordik, Vol. 1 , Bentham Science Publishers , Amsterdam (2004).	
82.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ” Vol. 30 , Eds. Atta-ur-Rahman, Elsevier Science Publishers , London (2004).	The Netherlands
83.	“ <i>¹³C-NMR of Natural Products Triterpenes</i> ” Eds. Atta-ur-Rahman and V. U. Ahmad, Vol. 3 , Kluwer Plenum Publishers , New York (in press).	USA
84.	<i>Frontiers in Drug Design and Discovery</i> ”, Edt. G.W. Coldwell, Atta-ur-Rahman and B. Springer Vol. 1 , Bentham Science Publishers , Amsterdam (2005).	The Netherlands
85.	“ <i>Frontiers in Medicinal Chemistry</i> ” Eds. Atta-ur-Rahman , Allan B. Reitz, M. Iqbal Choudhary and Cheryl P. Kordik, Vol. II , Bentham Science Publishers , Amsterdam (2005).	The Netherlands
86.	“ <i>Frontiers in Natural Product Chemistry</i> ” Eds. Atta-ur-Rahman , M. Iqbal Choudhary and K. M. Khan, Vol. 1 , Bentham Science Publishers , Amsterdam (2005).	The Netherlands
87.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ” Vol. 31 , Eds. Atta-ur-Rahman, Elsevier Science Publishers , Amsterdam (2005).	The Netherlands
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239.	“ <i>Frontiers in Natural Product Chemistry</i> ”,Ed. Atta-ur-Rahman , Vol. 3 Bentham Science Publishers , , UAE (2017).	UAE
240.	“ <i>Frontiers in Stem Cell and Regenerative Medicine Research</i> ” ,Eds. Atta-ur-Rahman and Shazia Anjum, Vol. 3 Bentham Science Publishers , , UAE (2017).	UAE
241.	“ <i>Frontiers in Stem Cell and Regenerative Medicine Research</i> ” ,Eds. Atta-ur-Rahman and Shazia Anjum, Vol. 4 Bentham Science Publishers , , UAE (2017).	UAE
242.	“ <i>Frontiers in Stem Cell and Regenerative Medicine Research</i> ” ,Eds. Atta-ur-Rahman and Shazia Anjum, Vol. 5 Bentham Science Publishers , , UAE (2017).	UAE
243.	“ <i>Frontiers in Stem Cell and Regenerative Medicine Research</i> ” ,Eds. Atta-ur-Rahman and Shazia Anjum, Vol. 6 Bentham Science Publishers , , UAE (2017).	UAE

244.	“ <i>Frontiers in Stem Cell and Regenerative Medicine Research</i> ”, Eds. Atta-ur-Rahman and Shazia Anjum, Vol. 7 Bentham Science Publishers , , UAE (2017).	UAE
245.	“ <i>Frontiers in Stem Cell and Regenerative Medicine Research</i> ”, Eds. Atta-ur-Rahman and Shazia Anjum, Vol. 8 Bentham Science Publishers , , UAE (2018).	UAE
246.	“ <i>Recent Advances in Analytical Techniques</i> ”, Eds. Atta-ur-Rahman Sibel A. Ozkan, and Rida Ahmed, Vol. 1 Bentham Science Publishers , , UAE (2017).	UAE
247.	“ <i>Frontiers in Drug Design & Discovery</i> ”, Ed. Atta-ur-Rahman , Vol. 9 Bentham Science Publishers , , UAE (2018).	UAE
248.	“ <i>Natural Products in Clinical Trials</i> ”, Eds. Atta-ur-Rahman , Shazia Anjum, Hesham R. El-Seedi, Vol. 1 Bentham Science Publishers , , UAE (2018).	UAE
249.	“ <i>Recent Advances in Analytical Techniques</i> ”, Eds. Atta-ur-Rahman , Sibel A. Ozkan, Rida Ahmed, Vol. 2 Bentham Science Publishers , , UAE (2018).	UAE
250.	“ <i>Patents eBooks Series</i> ”, Eds. Prof. Atta-ur-Rahman and Dr. Khurshid Zaman, Vol. 1 Bentham Science Publishers , , UAE (2012).	UAE
251.	“ <i>Patents eBooks Series</i> ”, Eds. Prof. Atta-ur-Rahman and Dr. Khurshid Zaman, Vol. 2 Bentham Science Publishers , , UAE (2013).	UAE
252.	“ <i>Patents eBooks Series</i> ”, Eds. Prof. Atta-ur-Rahman and Dr. Khurshid Zaman, Vol. 3 Bentham Science Publishers , , UAE (2014).	UAE
253.	“ <i>Patents eBooks Series</i> ”, Eds. Prof. Atta-ur-Rahman and Dr. Khurshid Zaman, Vol. 4 Bentham Science Publishers , , UAE (2015).	UAE
254.	“ <i>Patents eBooks Series</i> ”, Eds. Prof. Atta-ur-Rahman and Dr. Khurshid Zaman, Vol. 5 Bentham Science Publishers , , UAE (2016).	UAE
255.	“ <i>Patents eBooks Series</i> ”, Eds. Prof. Atta-ur-Rahman and Dr. Khurshid Zaman, Vol. 6 Bentham Science Publishers , , UAE (2017).	UAE

256.	“ <i>Advances in Organic Synthesis</i> ”, Eds. Prof. Atta-ur-Rahman , Vol. 11 Bentham Science Publishers , (2018).	UAE
257.	“ <i>Advances in Organic Synthesis</i> ”, Eds. Prof. Atta-ur-Rahman , Vol. 12 Bentham Science Publishers , (2018).	UAE
258.	“ <i>Anti-obesity Drug Discovery and Development</i> ”, Eds. Prof. Atta-ur-Rahman, M. Iqbal Choudhary , Vol. 4 Bentham Science Publishers , (2018).	UAE
258.	“ <i>Frontiers in Anti-Cancer Drug Discovery</i> ”, Eds. Prof. Atta-ur-Rahman, M. Iqbal Choudhary , Vol. 9 Bentham Science Publishers , (2018).	UAE
259.	“ <i>Frontiers in Clinical Drug Research - Alzheimer Disorders</i> ”, Eds. Prof. Atta-ur-Rahman , Vol. 7 Bentham Science Publishers , (2018).	UAE
260.	“ <i>Frontiers in Clinical Drug Research - CNS and Neurological Disorders</i> ”, Eds. Prof. Atta-ur-Rahman , Vol. 6 Bentham Science Publishers , (2018).	UAE
261.	“ <i>Frontiers in Natural Product Chemistry</i> ”, Eds. Prof. Atta-ur-Rahman , Vol. 4 Bentham Science Publishers , (2018).	UAE
262.	“ <i>Frontiers in Clinical Drug Research - Diabetes and Obesity</i> ”, Eds. Prof. Atta-ur-Rahman , Vol. 4 Bentham Science Publishers , (2019).	UAE
263.	“ <i>Recent Advances in Analytical Techniques</i> ”, Eds. Prof. Atta-ur-Rahman, Sibel A. Ozkan , Vol. 3 Bentham Science Publishers , (2019).	UAE
264.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ”; Vol. 56, Eds. Atta-ur-Rahman, Elsevier Science Publishers, Bentham Science Publishers, USA , (2017).	USA
265.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ”; Vol. 57, Eds. Atta-ur-Rahman, Elsevier Science Publishers, Bentham Science Publishers, USA , (2018).	USA
266.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ”; Vol. 58, Eds. Atta-ur-Rahman, Elsevier Science Publishers, Bentham Science Publishers, USA , (2018).	USA

267.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ”; Vol. 59, Eds. Atta-ur-Rahman, Elsevier Science Publishers, Bentham Science Publishers, USA, (2018).	USA
268.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ”; Vol. 60, Eds. Atta-ur-Rahman, Elsevier Science Publishers, Bentham Science Publishers, USA, (2018).	USA
269.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ”; Vol. 61, Eds. Atta-ur-Rahman, Elsevier Science Publishers, Bentham Science Publishers, USA, (2018).	USA
270.	“ <i>Studies in Natural Products Chemistry, (Bioactive Natural Products)</i> ”; Vol. 62, Eds. Atta-ur-Rahman, Elsevier Science Publishers, Bentham Science Publishers, USA, (2019).	USA

(d) Contributions to the Development of Science & Technology in Pakistan and the Region

Prof. Atta-ur-Rahman has made major contributions to the development of science & technology in Pakistan and in other regional countries as given below:

1. Contributions to Development of H. E. J. Research Institute of Chemistry, University of Karachi

Prof. Atta-ur-Rahman has contributed to the development of a world class centre in natural product chemistry The H. E. J. Research Institute of Chemistry in Pakistan. He won grants of 1 million pounds from Overseas Development Authority (UK), 9 million dollars from JICA (Japan), 3.5 million DM from GTZ (Germany), 7 million US dollars from Office of Naval Research (USA) and 15 million US dollars from Pakistan with which the Centre has been transformed to one of the best facilities for research on natural product chemistry anywhere. The facilities include 12 superconducting NMR spectrometers (800 MHz- 600 MHz- 300 MHz), seven mass spectrometers, X-ray diffractometers, FT-IR, elemental microanalysers, gas phase amino acid sequencer, gas chromatographs, HPLC systems, b-counter, g-counters, polygraphs and a considerable amount of pharmacology and pilot plant equipment etc. The instrumentation services are being made available to other chemistry institutions in the country, thus fulfilling a vital need. The Centre now serves as an international centre for training scientists from Third World countries. Several hundred scientists have been trained in the centre (including 80 German students) and over 60 joint research publications have resulted from these collaborations of his research group with scientists in Afro-Asia-countries and technologically advanced countries. The Centre was awarded the Islamic Development Bank Prize for “The Best Science Research Institute in the Islamic World” in 2004 and 2010.

2. Contributions to the Promotion of Science and Technology in Pakistan

In March 2000 Atta-ur-Rahman was appointed as the Federal Minister for Science and Technology in the Government of Pakistan while continuing to be the Director of HEJ Research Institute of Chemistry, University of Karachi. He managed to convince the government to make science and technology a priority area of national focus and the budget for science and technology in Pakistan was increased by 6000% from 2001 to 2003. In October 2002 he was appointed as the Chairman, Higher Education Commission. The budget for higher education was similarly increased by 1200% from 2002 to 2004. He has launched over three hundred and fifty national projects including:

- (1). Launching a digital library which now provides free nation-wide access to 20,000 journals (full text and abstracts) free of charge to all colleges, universities and other academic and research institutions in Pakistan.
- (2). Initiating a revolutionary new program of performance-based tenure-track appointments under which salaries of teachers have been increased so that they are 3 to 4 times those of Federal Ministers in the Government.
- (3). Providing free access (nation-wide) to scientists/engineers anywhere in the country to sophisticated instruments installed in any institute in Pakistan.
- (4). Establishing over a dozen new Universities and degree awarding institutions during the last three years.
- (5). Placing a satellite in space (Paksat-1) which is now used for distance learning; two new digital television channels have been launched under the Virtual University and two more will start functioning within the next eight to ten months exclusively for higher education on this satellite.
- (6). Launching US 300 million dollars annual support program for up-gradation of Universities and R & D Institutes.
- (7). Establishing National Commissions on Biotechnology and Nanotechnology and funding 58 projects worth over US dollars 20 million in these fields
- (8). Making major funds available for research grants
- (9). National Ph.D. output increased from the present 150 per year to 300 per year and now being further increased 1500 per year over the next five years through award of 1000 postgraduate scholarships annually.
- (10). Linked 56 universities with fiber and initiating a nation-wide lectureship program, allowing lectures to be given in one part of the country and inter-actively attended to in other parts of the country.

Till 1979, Pakistan had no national chemistry journal. In his capacity as the founding Honorary Editor, Professor Atta-ur-Rahman began publishing Pakistan's first international chemistry journal, "Journal of the Chemical Society of Pakistan" which has provided a medium in which national and regional research efforts in various disciplines of chemistry can be reflected. As President of the Chemical Society and later its Patron he has taken many steps to promote chemistry in Pakistan including the organization of Pakistan's first IUPAC Conference on Natural Products in 1994.

The contributions of Atta-ur-Rahman have been recognized by numerous national & international honorary degrees, awards & prizes including the degree of Doctor of Science (Sc.D.) by the University of Cambridge in 1987 and the UNESCO Science Prize (1999).

3. Promotion of Science and Technology in the Region

In his capacity as the head (Coordinator General) of COMSTECH which is a Committee of 57 Ministers of Science and Technology of OIC (Organisation of Islamic Conference) member countries Atta-ur-Rahman has initiated a large number of projects in the region which include:

- (1). Research grants given to young scientists (87 grants in 26 countries presently been given): countries benefiting are Algeria, Bangladesh, Benin, Burkinafaso, Cameroon, Egypt, Gobon, Gambia, Indonesia, Iran, Jordan, Lebanon, Malaysia, Mali, Mauritania, Morocco, Mozambique, Niger, Nigeria, Pakistan, Senegal, Sierra Leone, Sudan, Togo, Tunisia and Uganda.
- (2). A free scientific literature search has been initiated under which searches are made in abstracts of 6000 scientific journals and data provided within 48 hours by email to any individual requesting for literature search from 57 OIC member countries.
- (3). A database of active scientists of OIC member countries has been edited by him (and Dr. Ahsana Dar) which presents their recent research publications. Seven volumes have so far been published covering all countries

with names beginning with alphabet “A” to alphabet “N”. This database is also accessible through the internet (website address: www.comstech.org.pk).

- (4). Atta-ur-Rahman has established a Network of 45 libraries in 15 countries containing 28,000 journals and copies of complete articles are available to the countries participating in this Network.
- (5). Atta-ur-Rahman has initiated a programme under which students belonging to 18 least developed OIC member countries (Afghanistan, Benin, Burkina Faso, Comoros, Djibouti, Gambia, Guinea, Guinea-Bissau, Maldives, Mali, Mauritania, Mozambique, Niger, Sierra Leone, Somalia, Chad, Uganda and Yemen) are awarded M.Sc. scholarships in various fields of Science and Technology for study in relatively more advanced OIC member countries.
- (6). A Network of Academies of Sciences in the Countries of Organization of Islamic Conference (NASIC) has been established. Atta-ur-Rahman, who is the President of the Pakistan Academy of Sciences, has been elected as its President. A large number of collaborative programmes have been initiated under this Network.

Atta-ur-Rahman's efforts to establish a research institute of international caliber in a developing country and his research contributions have been praised by 5 Nobel Laureates (J.-M. Lehn, R.R. Ernst, Sir D.H.R. Barton, H.C. Brown and R. Noyori) in their nominations for various prizes.

Prof. Dr. Atta-ur-Rahman's contributions to promote Science & Technology have attracted praise in an editorial in “*Nature*” [(427, 379 (29 January 2004)].

Quote: “*Rahman has convinced Musharraf and a deluge of money and new initiatives has poured out. Consider the following: the ministry of science and technology's annual budgets increased 60-fold compared with 1999; researchers have an opportunity to more than double their earnings if they publish more in peer-reviewed journals; funds have been released for many more Ph.Ds. to be trained at home and abroad; plans are well under way for a free digital library for all educational institutions; there is a new scheme to attract researchers from overseas to work in Pakistan; and the cabinet recently approved a plan to use science and technology to catalyse a doubling in the country's rate of growth of gross domestic product before 2020.*” Unquote.

4. LEJ Knowledge Hub

Latif Ebrahim Jamal National Science Information Center (LEJNSIC) has been serving as a hub of information dissemination and focal center of the Virtual Education Project Pakistan (VEPP) since 2008, led and supervised by **Professor Atta-ur-Rahman, FRS** and Prof. M. Iqbal Choudhary. Thousands of full courses (**about 0.5 million lecture hours**), skill development modules, research based lectures, and on-line mentoring sessions at school, college and university levels have been arranged from the following sources:

- MIT Open courseware (Massachusetts Institute of Technology, USA)
- Udacity (Harvard University)
- Open Yale Courses (Yale University)
- Stanford Engineering Everywhere (Stanford University)
- Khan Academy
- Virtual University
- HEC courses
- LEJ Courses and Lecture Series

These learning materials are available through a web based portal, for all levels and in various languages. A variety of technical and vocational courses will be made available, preferably dubbed in Urdu, for the underprivileged population with the aim of providing them with excellent means of learning. The increasing population of the world is going to pose huge challenges for the next generation in terms of access to water, food and education. Tens of thousands of new colleges and universities will be needed to cope with the needs of the growing number of young seeking opportunities for education in various fields. Technology has however opened up new opportunities in the last decade. This wonderful website of knowledge (**lej4learning.com.pk**) was inaugurated by His Excellency, Mamnoon Hussain, The President of Islamic Republic of Pakistan on December 12, 2013. The program is led by our most celebrated scientist and global leader in education, **Prof. Dr. Atta-ur-Rahman** *FRS* as a monumental service to the nation and the world at large.

Online learning is growing in popularity and effectiveness. Current estimates indicate that as many as four million students in North America are taking online courses because online courses are convenient, offer flexibility, bring education right to your home, offer more individual attention, promote life-long learning and of course provides financial benefits too. The challenge is to have knowledge of what is available where, and then to have rapid access to them without being lost in the wilderness of information that we encounter when carrying out a search in Google for the desired materials. The answer has been provided by integrating all such resources on one platform and providing them to students across the country. Pakistan is now among the first in the world to initiate a massive learning platform which includes integrated courses from various major world sources for ready accessibility, structured mentoring and assessment system and at the end credit recognition, issuance of certificate, and degrees wherever possible.

5. Language Program at ICCBS

i. Basic Chinese Language Program

Under the global leadership in education of Prof. Dr. Atta-ur-Rahman virtual education project Pakistan has launched two on-line courses through video conferencing under “Basic Chinese Language Program” which is being implemented in collaboration with the Confucius Institute of Chinese Language, University of Karachi and the Confucius Institute of Chinese Language, Islamabad.

These courses have been designed to help undergraduate, graduate and post graduate students in Life Sciences, Engineering Sciences and Social Sciences to develop their language skills which will be beneficial in their future lives particularly in view of the key role that China is now playing in the world economy and in science and engineering. Two parallel training programmes of identical levels 1A and 1B, initiated from February 17, 2014 and February 18, 2014, Chinese Language Course II (IIA and IIB) from November 17, 2014 and Chinese Language Course III started from November 17, 2015 for a term of four months, Chinese Language Course IV commenced from September 20, 2016 for four months and Chinese Language Course V commenced from March 07, 2017 for four months, Chinese Language Course VI commenced from September 19 for four months. Chinese Language Course VII commenced from April 3 for four months. These courses will cover Chinese Basic Language, Chinese listening and speaking and Chinese culture. The courses are transmitted on-line through Video Conferencing facility at L.E.J. National Science Information Center, International Center for Chemical and Biological Sciences (ICCBS), University of Karachi.

ii. Arabic Language Course:

Another language course in Arabic language has been initiated from July 2016 for the period of four months under the guidance of Prof. Dr. Atta-ur-Rahman, FRS.

This course has been designed to help undergraduate, graduate and post graduate university students specializing in biological and chemical and social sciences to develop and provide a better knowledge of the Arabic language foster cultural cooperation. The aim is to communicate an inclusive depiction of language by providing information on Arab's cultural, social and political life, and contribute to the academic and professional requirements of their disciplines and excel in their careers. The language program will start from July 25, 2016 for a period of four months.

This course will be coordinated through the Latif Ebrahim Jamal National Science Information Center (University of Karachi), in collaboration with the Arabic language expert at Sheikh Zayed Islamic Center (SZIC), University of Karachi. The course will be transmitted on-line through Video Conferencing facility and via webinar technology at L.E.J. National Science Information Center, International Center for Chemical and Biological Sciences (ICCBS), University of Karachi.

iii. French Language Course:

Course initiated by Prof. Atta-ur-Rahman in French in collaboration with the Alliance Francaise has been designed to help undergraduate, graduate and postgraduate university students specializing in biological and chemical and social sciences to develop and provide a better knowledge of the French language abroad and foster international cultural cooperation. The aim was to convey a comprehensive picture of France by providing information on their cultural, social and political life, and contribute to the academic and professional requirements of their disciplines and excel in their careers. The language program started from **April 12, 2016** for a period of **five months**. This course was coordinated through the Latif Ebrahim Jamal National Science Information Center, ICCBS, University of Karachi, in collaboration with the French language experts at Alliance Francaise, Karachi, Pakistan. The course was transmitted on-line through Video Conferencing facility and via webinar technology at the L.E.J, International Center for Chemical and Biological Sciences (ICCBS), University of Karachi

iv. German Language Course

The German language course entitled, "*Fit for Germany*" has been successfully initiated by Prof. Atta-ur-Rahman at the International Center for Chemical and Biological Sciences (ICCBS), University of Karachi (UoK). in collaboration with the Goethe-Institute, Karachi, Pakistan. This course was designed for undergraduate, graduate and post graduate university students specializing in biological and chemical and social sciences to develop and provide a better knowledge of the German language abroad and foster international cultural cooperation. The aim is to convey a comprehensive picture of Germany by providing information on Germany's cultural, social and political life, and contribute to the academic and professional requirements of their disciplines and excel in their careers. The language program will start from February 29, 2016 for a period of four months.

6. *The Wondrous World of Science:*

The exciting developments in science and technology are transforming the world that we live in. The only constant is change---nations that can ride this change rather than get buried under it are surging forward, leaving others behind. This change is being driven by new scientific discoveries. These are then transformed into technologies, and then through innovation and entrepreneurship they become products of daily use. This is apparent in almost every sphere of our lives. Engineering goods, household appliances, communication tools, electronics, pharmaceuticals and many other fields are evolving with increasing rapidity.

This volume by Prof. Atta-ur-Rahman represents a compilation of a series of about 600 articles that have been written in Pakistan's daily newspaper, Dawn, under the title "The Wondrous World of Science" every Sunday during the last four years. These articles have been widely read and generally greatly appreciated. Due to repeated requests from a number of readers all articles are compiled into a book in a comprehensive manner and is therefore available for general public.

Its interesting articles have gained so popular that Bureau of Planning & Strategy Chinese Academy of Sciences has translated it into **Chinese Language** has been published in January 2016. Soon it will be marketed for general public. With the increasing demand its now been translated into Urdu and published under the title "*Science Ka Jahan-e-Hairat*" (2015).

7. *The Exciting World of Science*

An updated volume of the Wondrous World of Science has recently been published in July 2016.

8. **Articles In Newspapers**

Despite of Research publications, Prof. Atta-ur-Rahman writes for different newspapers, journals and magazines of national and international importance which mostly covers the recent advancement in science and technology around the world and what measures may be taken to upgrade the higher education level of Pakistan and negligence of government of Pakistan in this respect.

DAWN (*English*):

Prof. Atta-ur-Rahman, FRS is writing a column in Pakistan's top daily newspaper in English, Dawn under the heading entitled "Wondrous World of Science" since 2009 to date and more than 800 articles have been published. All these articles have also been compiled into a book, "*Wondrous world of Science*", its first volume has been published while second volume is under compilation. This interesting book on recent advancements in science and technology sector has also been translated into Chinese and Urdu languages.

THE NEWS (*English*):

Prof. Atta-ur-Rahman is writing in one of the Pakistan's leading English Daily Newspaper since 2011 and almost 166 articles have been published on Science, technology and Socio Economic development.

ROZNAMA JANG (*Urdu*):

Prof. Atta-ur-Rahman is also writing articles in Pakistan's another leading daily Urdu newspaper since 2011 and almost 164 articles have been published.

EXPRESS TRIBUNE (*English*):

Prof. Atta-ur-Rahman has written 15 articles since 2012 in an international newspaper.

BLUE CHIP (*English*):

Prof. Atta-ur-Rahman has written 15 articles since 2013 in an international magazine published monthly.

STUDENTS WHO COMPLETED Ph.D. STUDIES UNDER THE SUPERVISION OF PROF. ATTA-UR-RAHMAN:

S. #	NAME OF STUDENT	YEAR	TITLE OF Ph.D. THESIS
(1).	Dr. Nighat Waheed	1980	Synthetic studies in the field of indole alkaloids.
(2).	Dr. Sadiqa Firdous	1981	Synthetic studies in the field of indole alkaloids.
(3).	Dr. Maryam Ghazala	1981	Synthetic studies in the field of indole alkaloids.
(4).	Dr. Kaneez Fatima	1981	Isolation and structure elucidation of alkaloids from <i>Rhazya stricta</i> .
(5).	Dr. Mohammad Bashir	1983	Isolation, structure and synthetic studies on b-carbolines and <i>Iboga</i> alkaloid systems.
(6).	Dr. Mumtaz Sultana	1983	Synthetic studies in the field of heterocyclic chemistry.
(7).	Dr. M. Asif Khan	1983	Isolation and Structural Studies in the Field of Organotin Alkaloids
(8).	Dr. Akbar Ali Ansari	1983	Isolation and characterization of chemical constituents of <i>Berberis aristata</i> , <i>Fagonia indica</i> and <i>Daucus carota</i> .
(9).	Dr. Sohail Malik	1985	Studies on the chemical constituents of <i>Rhazystricta</i> and <i>Nigella sativa</i> .
(10).	Dr. Nader Doulatbadi	1985	Isolation and structural determination of some of indole alkaloids of <i>Ervatamia coronaria</i> .
(11).	Dr. Irshad Ali	1985	Isolation and structural studies on the alkaloids of <i>Catharanthus roseus</i> .
(12).	Dr. Mehr-un-Nisa	1985	Investigation of the chemical constituents of <i>Calotropis procera</i> and related plants.

(13).	Dr. Anjum Muzaffar	1986	Isolation and structural studies on the alkaloids of <i>Ervatamia coronaria</i> .
(14).	Dr. Sajida Khanum	1986	Isolation and structural studies on alkaloids of <i>Rhazya stricta</i> and synthetic studies in the field of pyridyl indoles.
(15).	Dr. Kishwer Jahan	1986	Isolation and structural studies on <i>Cocculus pendulus</i>
(16).	Dr. M. Iqbal Choudhary	1987	Isolation and structural studies on the alkaloids of some indigenous medicinal plants <i>Buxus papillosa</i> , <i>Catharanthus roseus</i> and <i>Cissampelos pareira</i> .
(17).	Dr. Khisal Ahmad Alvi	1987	Studies in the chemical constituents of <i>Alstonia scholaris</i> and <i>Cleome brachycarpa</i> .
(18).	Dr. Habib-ur-Rehman	1988	Isolation and structural studies on the <i>Rhazya stricta</i> and related medicinal plants.
(19).	Dr. Talat Fatima	1990	Isolation, structure elucidation and synthetic studies in the field of indole alkaloids.
(20).	Dr. Khurshid Zaman	1990	Studies on the chemical constituents of roots of <i>Rhazya stricta</i> Decaisne.
(21).	Dr. Zahida Iqbal	1990	Studies on the alkaloids of <i>Buxus papillosa</i> and other related plants.
(22).	Dr. Munawer Qureshi	1991	Isolation and structural studies on the chemical constituents of <i>Rhazya strica</i> , <i>Alstonia macrophylla</i> and related medicinal plants.
(23).	Dr. Sultan Ahmad	1991	Isolation and structural studies on the chemical constituents of <i>Tinospora malabarica</i> and <i>Nigella sativa</i> .
(24).	Dr. Azra Perveen	1991	Studies on the chemical constituents of <i>Petchia ceylanica</i> and other related plants.
(25).	Dr. Shahnaz Perveen	1991	Isolation and structural studies and synthetic modification of alkaloids of <i>Sphaeranthus indicus</i> and <i>Catharanthus roseus</i> .
(26).	Dr. Dildar Ahmad	1991	Isolation and structural studies on the chemical constituents of <i>Buxus</i> species.
(27).	Dr. Zahir Shah	1991	Studies on the chemical constituents of <i>Stokeyia indica</i> , <i>Ervatamia coronaria</i> and <i>Haplophyllum</i> species
(28).	Dr. Muzaffar Alam	1991	Isolation and structural studies on the chemical constituents of <i>Catharanthus roseus</i> and <i>Buxuspapillosa</i> .

(29).	Dr. Aisha Nelofar	1992	Isolation and structural studies on <i>Cocculus pendulus</i> and some other related plants.
(30).	Dr. Ali Abbas	1992	Studies in the chemical constituents of <i>Alstonia</i> species, <i>Laurencia pinnatifida</i> and related marine organisms.
(31).	Dr. S. Arshad Jamal	1993	Phytochemical and structural studies on the chemical constituents of <i>Polygonum equistiforme</i> , <i>Withania somnifera</i> and related medicinal plants.
(32).	Dr. Farzana Nighat	1993	Phytochemical and structural studies on the chemical constituents of <i>Alstonia macrophylla</i> and <i>Solanum albicaule</i> .
(33).	Dr. Hussain Ahmad	1993	Studies on the constituents of <i>Berberis waziristanica</i> and CD studies of chiral metal complexes.
(34).	Dr. Naheed Sultana	1994	Studies on the isolation of new potentially bioactive agents from <i>Rhazya stricta</i> , <i>Fritillaria persica</i> and related plants.
(35).	Dr. M. Saleh Ajaz	1994	Phytochemical studies of <i>Sophora griffithii</i> , <i>Petchia ceylanica</i> and <i>Zizyphus lotus</i> and synthesis of asarone analogues.
(36).	Dr. Habib Nasir	1994	Isolation and structural studies on the chemical constituents of <i>Buxus papillosa</i> and the related plants.
(37).	Dr. Khalid Bhatti	1994	Isolation and structural studies on the chemical constituents of <i>Fumaria indica</i> and related medicinal plants.
(38).	Dr. Rahat Sultana	1995	Isolation and structural elucidation of chemical constituents of the biologically active fractions of <i>Veratrum</i> studies.
(39).	Dr. Syed Erfan Asif	1995	Phytochemical investigations of the chemical constituents of <i>Buxus</i> species and synthesis with metal complexes.
(40).	Dr. Syed Safdar Ali	1995	Studies on the chemical constituents of <i>Tinospora malabarica</i> , <i>Buxus papillosa</i> and <i>Fumaria indica</i> ; synthetic development of new protecting group of arginine.
(41).	Dr. Athar Ata	1995	Phytochemical and structural studies on the chemical constituents of <i>Buxus hildebrandtii</i> and <i>B. sempervirens</i>

(42).	Dr. Samina Naz	1995	Phytochemical and structural studies on the chemical constituents of <i>Buxus sempervirens</i> and <i>Buxus papillosa</i> .
(43).	Dr. Samina Abbas	1995	Studies on the chemical constituents of <i>Rhazya stricta</i> , <i>Mitragyna parifolia</i> and <i>Withania somnifera</i> .
(44).	Dr. Durre Shahwar	1997	Isolation and structural studies on the nematocidal constituents of <i>Datura fastuosa</i> and chemical constituents of <i>Bongardia chrysogonum</i> and <i>Rhazya stricta</i> .
(45).	Dr. Abdul Rauf Raza	1997	Phytochemical Studies on <i>Phyllanthus fraternus</i> , <i>Phyllanthus amarus</i> and Microbial Transformation of Natural Products.
(46).	Dr. Afgan Farooq	1998	Structural synthesis and biotransformations studies of some steroidal alkaloids, steroids and sesquiterpenes.
(47).	Dr. Farhana Noor-e-Ain	1998	Phytochemical and structural studies on the chemical constituents of <i>Buxus longifolia</i> and related plants.
(48).	Dr. Amber Nasreen	1998	Biosynthesis of colchicines, phytochemical and structural studies on the chemical constituents of <i>Delphinium denudatum</i> .
(49).	Dr. Sarwat Jahan	1998	Phytochemical studies on the chemical constituents of <i>Commiphora mukul</i> and related medicinal plants of Pakistan.
(50).	Dr. Shazia Anjum	1999	Isolation and structural studies on the chemical constituents of <i>Sarcococca saligna</i> and <i>Phlomis stewartii</i> and studies on rearrangement of benzisoxazole b-carboline to indolocinnoline derivative.
(51).	Dr. Abdul Majeed Khan	2000	Phytochemical and structural studies on the chemical constituents of <i>Taxus wallichiana</i> , <i>Tanacetum gracile</i> , <i>Jolyna laminarioides</i> and other marine algae.
(52).	Dr. M. Ashraf	2000	Phytochemical Studies on <i>Taxus Wallichiana</i> Zucc, <i>Podophyllum emodi</i> var. <i>hexandrum</i> and related medicinal plants
(53).	Dr. Muhammad Shahid Malik	2000	Bioactive chemical constituents of <i>Jatropha gossypifolia</i> , <i>Pteleopsis hylodendron</i> and <i>Gossypium herbaceum</i> .
(54).	Dr. Nighat Sultana	2001	Phytochemical and structural studies on the chemical constituents of <i>Adhadota vasica</i> , <i>Sarcococca saligna</i> and <i>Skimmia laureola</i>
(55).	Dr. Uzma Qureshi	2001	Phytochemical studies on the constituents of <i>Sophora griffithii</i>

(56).	Dr. Usman Ghani	2001	Studies on the inhibition of protease tyrosinase and related enzymes by natural products and synthetic compounds
(57).	Dr. Zaheer ul Haq Qasmi	2002	Isolation and structural studies on the chemical constituents of <i>Sarcococca saligna</i> and <i>Cryptostegia grandiflora</i>
(58).	Dr. Shahida Shujaat	2003	Biochemical studies on new inhibitors of b-glucuronidase and hepatotoxic activity of some chemical constituents
(59).	Dr. Fatima Khanzadi	2003	Phytochemical studies on the chemical constituents of <i>Erythroxylum moonii</i> and <i>Fritillaria imperialis</i>
(60).	Dr. Nazhat Fatima	2003	Phytochemical studies on <i>Aconitum falconer</i> and related medicinal plants
(61).	Dr. Shakil Ahmed	2003	Isolation and structural elucidation of chemical constituents from <i>Fumariaindica</i> , <i>Ferula oopoda</i> and <i>Withaniasomnifera</i>
(62).	Dr. Aniq Naz	2003	Studies on the chemical constituents of <i>Withania coagulans</i> and <i>Boswellia dalzielii</i>
(63).	Dr. Zareen Amtul	2003	Studies on urease enzyme and Alzheimer's disease.
(64).	Dr. Muhammad Nadeem Akhtar	2004	Isolation and structural elucidation of the chemical constituents of <i>Fritillaria imperialis</i> and <i>Anogeissus schimperi</i>
(65).	Dr. Shama Nasim	2004	Phytochemical studies on <i>Iris species</i> and synthesis of different heterocyclic compounds
(66).	Dr. Fareeda Feroz	2004	Phytochemical investigations on the chemical constituents of <i>Sarcococca saligna</i> , <i>Ficus religiosa</i> and related medicinal plants and synthetic studies towards interesting new heterocyclic compounds
(67).	Dr. Humera Naz	2005	Bioassay-directed isolation of natural products from <i>Boswellia papyrifera</i> , <i>Paris polyphylla</i> , <i>Sophora mollis</i> and related medicinal plants
(68).	Dr. Talat Makhmoor	2005	Antioxidants from Medicinal Plants of Pakistan
(69).	Dr. Atia-tul-Wahab	2006	Phytochemical and Structural Studies on the Chemical Constituents of <i>Iris germanica</i> , <i>Cocculus pendulus</i> , and Related Medicinal Plants
(70).	Dr. Seema Zareen	2006	Phytochemical studies on <i>Terminalia glaucescens</i> , <i>Pteleopsis hylo dendron</i> and related medicinal plants

(71).	Dr. Ali Azarpira	2009	Bioassay-Directed Investigation on genus <i>Ferula</i> and other medicinal plants and cytotoxicity evaluation of plant metabolites
(72).	Mr. Muhammad Sohail Haroone (M. Phil)	2009	Bioactivity-guided phytochemical investigation on <i>Sophora mollis</i> and related medicinal plants
(73).	Dr. Safdar Hayat	2010	Isolation and structural characterization of secondary metabolites from brown algae <i>Spatoglossum variable</i> and development of some useful methodologies in organic synthesis
(74).	Dr. Muhammad Ismail	2010	Isolation and Structure Elucidation of Bioactive Metabolites from <i>Tinospora crispa</i> and application of Nucleophilic Catalysis to the Asymmetric Generation of Quaternary Stereogenic Centers : Towards the Formal Total Synthesis of (-)-Physostigmine
(75).	Dr. Saira Erum	2011	Microbial Transformational Studies of Bioactive Compounds
(76).	Dr. Syed Faraz Moin	2011	Structure-Function Relationship of Proteins and Peptides from Sindhi Krait (<i>Bungarus sindanus</i>)
(77).	Dr. Furqan Sami	2012	Interaction and regulation of Propyl Isomerase Pin 1 by Phosphatase Inhibitor -2
(78).	Dr. Humera Waheed	2013	Study of Hemaglobin Protein from the Leaf-nosed Viprer (<i>Eristicophis macmahonii</i>) and Sindh, Krait (<i>Bungarus sindanus sindanus</i>) and the Protein Translocation Complex from <i>Escherichia coli</i> .
(79).	Dr. Bishnu Parsad Marasini	2013	“Screening and Structure-Activity Relationship on Inhibitors of α -Chymotrypsin and Glycogen Synthesis Kinase-3”
(80).	Dr. Shahnaz Parveen	2014	Studies on Chemical Constituents of Buxus Species
(81).	Dr. Saba Farooq	2015	“Study of Possible Reversal of Resistance in some Disease – causing Multiple Drug Resistant Bacteria by Natural Product and Other Biotechnological Tools”
(82).	Dr. Mujeeb Ur Rehman	2016	“Phytochemical and Bioassay Studies on <i>Adiantum venustum</i> (a Fern) and <i>Reboulia hemisphaerica</i> (a Liverwort)”

HONOURS AND AWARDS

The Royal Society London was established in 1645 under the charter of Royal Decree of the United Kingdom. Since then the Society has had some of the most eminent scientists of the world including over 100 Nobel Laureates and such luminaries as Sir Issac Newton and Sir Charles Darwin, Albert Einstein as its Fellows. **Prof. Atta-ur-Rahman was elected as a Fellow of the Royal Society on 14th July, 2006.**

Prof. Rahman is well known in his field for his prolific research publications in the field of natural products chemistry, for the excellent international chemistry conferences which he regularly organizes in Pakistan, and for his contributions in the establishment of one of the best centers in natural products chemistry (H.E.J. Research Institute of Chemistry).

He was awarded the degree, Doctor of Science, of Cambridge University (Sc.D.), which was conferred, on him in October 1987. Sir Syed Engineering University awarded D.Sc. to Prof. Atta-ur-Rahman in October 2003, Gomal University awarded D.Sc. degree in April 2004 while University of Karachi honoured him with D.Sc. in 2005. He was the first recipient of the award of “Scientist of the Year” (for 1985) conferred by the Government of Pakistan in 1987, and he was awarded the “Islamic Organization Prize” by the Minister of Health of Kuwait on behalf of the Kuwait Foundation for the Advancement of Science for the year 1987 after an international competition (conferred on him in Cairo in November 1988). He has received the First Khwarazmi Prize after a competition between scientists of 57 Islamic countries. The prize was conferred on him by the President of Iran on 8th February, 1993. He was conferred the Award of the Federation of Asian Chemical Societies in Hiroshima, Japan in 1997. He has won four Civil Awards (Nishan-e-Imtiaz (Highest National Award), Hilal-e-Imtiaz, Sitara-i-Imtiaz and Tamgha-e-Imtiaz) and was also the President of the Chemical Society of Pakistan. **He received the prestigious UNESCO Prize in a special ceremony in Budapest, Hungary in June 1999.** He is the first Muslim scientist who has received this international honor.

Prof. Atta-ur-Rahman has been elected as the **President of the Pakistan Academy of Sciences twice** from 2003-2006 and 2011 - 2014, he is the **President of the Network of Academies of Sciences in the Countries of the Organization of Islamic Conferences (NASIC)** (2004-present).

RECOGNITION:

In recognition of global outstanding services to the development of Science and Technology the largest university in Malaysia, University of Technology Mara, Malaysia UiTM, has established an institution entitled, “Atta-ur-Rahman Institute of Natural Product Discovery (Atta-ur-Rahman Institute, AuRins)” in 2013., The National University of Science and Technology (NUST) has also established an Institute “Atta-ur-Rahman School of Applied Bio Sciences (ASAB)” at their university in Islamabad in 2011. In recognition of his services a building of the ICCBS Institutions, the University of Karachi has named The Third World Center for Science and Technology building after him entitled, “Prof. Atta-ur-Rahman Laboratories” in 2011.

In recognition of my visionary leadership, untiring struggle and momentum for the uplift o Higher Education in Pakistan, the Institute of Biotechnology and Genetic Engineering (IBGE), University of Agriculture Peshawar, a prestigious institute that plays its role in the field of Agriculture, livestock and human health has established a new block of IBGE in my name, called Prof. Dr. Atta-ur- Rahman block of IBGE.

PROF. ATTA-UR-RAHMAN ESTABLISHES GENOME CENTER

Prof. Atta-ur-Rahman has recently established a research center in university of Karachi in the field of Genomics from a personal donation. The center is named “Jamil-ur-Rahman Center for Genomics Research”.

It is now fully operational with state-of-the art gene sequencing facilities and highly qualified personnel. The center has already completed the gene sequence of different ethnic populations and has also embarked on projects to improve the milk yields of Sahiwal cows as well as to create food crops which are salt tolerant and resistant to diseases.

APPOINTMENTS

1.	Awarded Life Time Honorary Fellowship of Kings College, Cambridge University , February 2007.
2.	Appointed Vice-President (Central & South Asia) of the Academy of Sciences for the Developing World (TWAS) Council .
3.	Appointed Foreign Fellow of Korean Academy of Sciences, (2004-present).
4.	Appointed as the Advisor to the Prime Minister for Science and Technology on 18 th November, 2005-Present
5.	Appointed as Federal Minister/Chairman, Higher Education Commission (October, 2002-Present)
6.	Appointed as the Federal Minister for Science and Technology by the Chief Executive of Pakistan on 14 th March, 2000-October 2002.
7.	Appointed as the Federal Minister (In-charge) Ministry of Education (July 2002 to October 2002)
8.	Appointed as the Federal Minister (Incharge) of the Ministry of Science and Technology and Adviser to the Prime Minister on Science and Technology (July 2003)
9.	Elected as the President of the Pakistan Academy of Sciences (Jan, 2003 – December 2006).
10.	Elected President of A Network of Academies of Sciences in the Countries of the Organization of Islamic Conferences (NASIC) (2004 – present)
11.	Appointed as the Chairman of Working Group on Science & Technology to prepare the 9th 5 Year Plan (1998-2003) by the Government of Pakistan.
12.	Appointed as Member of Editorial Board of <i>Fitoterapia</i> (1999).
13.	Appointed Member of the Pakistan Institute of Development Economics (PIDE) on 10 th January, 2007-Present
14.	Appointed Member of the Social Sector Coordination Committee (SSCC) by the Prime Minister of Pakistan on 12 th January, 2007-Present
15.	Appointed as Member of the Board of Trustees of Pakistan Science Foundation by the Ministry of Science & Technology, Government of Pakistan (1999).
16.	Appointed as Member of Editorial Board of <i>Journal of Asian Natural Products Research</i> (1998).
17.	Appointed as the Member of the Advisory Board of Journal of Pharmacy of Istanbul University (Turkey), 1998.

18.	Elected as Vice President of Pakistan Academy of Sciences (1997- 2012).
19.	Appointed, Coordinator General of COMSTECH , (1996 till 2012).
20.	Appointed, Member of National High Level Review Committee on Science and Technology and Chairman of the Sub-committee on Pharmaceuticals . The National Committee was constituted by Prime Minister of Pakistan to study the possible re-organization of the Ministry of Science and Technology and R&D organizations under its administrative control in order to make them more responsive to the needs of the country (1996).
21.	Appointed as Member of the Editorial Board of “ Spectroscopy: An International Journal ”. IOS Press, Amsterdam (1996).
22.	Elected as Scientific Advisor to CIBA Foundation (now Novartis Foundation) , London (1995 – present).
23.	Appointed as Member of Governing Body of Sir Syed Engineering University , as member of Board of Trustees of Pakistan Science Foundation and as member of Board of Graduate Studies of Aga Khan University (1995).
24.	Appointed as Member of the Academy of Natural Sciences , Republic of Uzbekistan, 1994.
25.	Elected President of the Chemical Society of Pakistan (1992).
26.	Appointed as the Member of the Editorial Board of Khimiya Prirodnynkh Soedinchii (Chemistry of Natural Compounds (Uzbekistan), 1992.
27.	Appointed as the Member of the Editorial Board of Journal of Islamic Sciences (Turkey), 1991.
28.	Elected to the Fellowship of the Islamic Academy of Sciences in 1988.
29.	Appointed Member National Commission for Science and Technology January 1985.
30.	Elected to the Fellowship of the Third World Academy of Sciences in July 1985.
31.	Appointed as U.N.I.D.O. Expert on Panel on Medicinal Plants in August 1984.
32.	Appointed as W.H.O. Expert on Vector, Biology and Control in July 1983 (till to date).
33.	Elected Chairman of S.C.A.M.A.P (a Regional U.N.E.S.C.O. network on medicinal and aromatic plants comprising 11 regional countries) on 18 th October, 1982.
34.	Elected to the Fellowship of Pakistan Academy of Sciences in 1982.
35.	Appointed by U.N.E.S.C.O. as Chairman of National Committee for South and Central Asian Medicinal and Aromatic Plants (S.C.A.M.A.P.) (1982-1985).
36.	Elected to the Fellowship of the Royal Society of Chemistry , London (1981).
37.	Appointed as Secretary of S.C.A.M.A.P (UNESCO Regional Network) (1980).
38.	Appointed to the National Council for Tibbi Research by President of Pakistan and elected to its Executive Board (1980).

39.	Appointed Member of the Steering Committee for Establishment of Chemistry Center in Trieste, Italy (still continuing).
40.	Patron-in-Chief , International Center for Chemical and Biological Sciences, University of Karachi (2008).
41.	Elected President , Pakistan Academy of Sciences second time (2011).
42.	Member Board of Directors, Karachi Education Initiative (KEI) 2011
43.	Member, American Chemical Society . U.S.A.
44.	Member, American Society of Pharmacognosy .
45.	Member, Swiss Chemical Society .
46.	Member. New York Academy of Sciences .
47.	Member, Russian Academy of Sciences .
48.	Chairperson Eisenhower Fellowship (Pakistan representative)
49.	Alumni Ambassador UK 2011
50.	Member Executive Board of Govenors of COL , Common Wealth of Learning
51.	Honorary Membership of Balim Akademisi in 2012 Turkey
52.	Member of the Advisory board of ELLTA Conference in Malaysia, 2012
53.	Honorary Member of the Advisory Board for the “ Virtual Hall of Fame of Pakistan ”, September 2012
54.	Member of the Senior Advisory Council of the International Organization for Chemical Sciences in Development (IOCD) , (2013-2017).
55.	Appointment as a distinguished Visiting Professor at Universiti Teknologi Mara (UiTM), Puncak Alam Campus November 29, 2012 (2 years).
56.	Chairman, Standing Committee on Higher Education of the Federation of Pakistan Chambers of Commerce 2013
57.	Chairman, Committee for Revision of Research Productivity Award , Pakistan Council for Science and Technology, 2013
58.	Member Board of Governors, Karachi School of Business and Leadership (KSBL) 2013 .
59.	Chairman Board of Trustees of Foundation of Scientific Knowledge (FDSK) (2011)
60.	Member, Board of Governors as A person of outstanding merit , nominated by the Advisory Committee of COMSATS
61.	Chairman, Board of Governors of Montessori Teachers Training Center .
62.	Chairman Board of Governors of Kidney Foundation . (re-elected in 2013 for two years).

63.	Fellowship of Asian Federation for Medicinal Chemistry (AFMC) 2013.
64.	Member Board of Governors – DHA Suffa University 2012 (2 years under the category of Eminent Educationists).
65.	Honorary Fellowship of the Institute of Chemistry Ceylon, Sri Lanka April 3-4, 2014.
66.	Member of the Board of Governors of Sir Syed University of Engineering June 2014
67.	Member of the Resource and Advisory committee of Anjuman Urdu Tartaqqi Pakistan (2014).
68.	Member Board of Governors of Zia –uddin – University, Karachi (2014)
69.	Chairman, International Organizing Committee Eurasia (2014).
70.	Senior Member “101 Friend of China”, A mega strategic think tank of Pakistan (February, 2015).
71.	Member Global Advisory Board of “World Academy of Chemistry” 55/11, Krishna Nagar, Hojai-782435, India (April, 2015).
72.	Chairman Standing Committee on Science and Technology of FPCCI (2015).
73.	President, Karachi School of Business and Learning (KSBL) 2015.
74.	Appointed Consultant Asian Education forum (2015-2020)
75.	Appointed as Foreign Fellow of Chinese Academy of Sciences (2015)
76.	Deans Council of University Petra conferred upon the title of “Adjunct Distinguished Professor’, in recognition of meritorious scientific research, as eminent scholar in the field of Organic Chemistry November 2015 (Certificate will be awarded at the AAS Conference, October, 2016).
77.	Appointment as a Chairman of UN ESCAP Committee on Science Technology & Innovation March 2016.
78.	Appointment as a Judge in 'Judges Panel' of China Create Foundation 2017.
79.	Appointment as an Honorable Professor of Chinese Medicine Nov 2017
80.	Appointed as the Academician of Chinese Academy of Sciences 2017
81.	Appointed as the Chairman of the Pakistan Advisory Board and Member of the International Advisory Board of the Children’s Foundation, May 24, 2017
82.	Appointment as an Honorary Professor of Hunan University of Chinese Medicine, November 2017
83.	Appointed as Syndicate member of the University of Karachi 2018-2021

INTERNATIONAL CONFERENCES ORGANIZED

Prof. Atta-ur-Rahman in his capacity as Organizing Secretary or Chairman has organized the following major international conferences.

(1)	Drug Discovery & Therapy World Congress 2017, organized by the Chairman of International Advisory Board of DDTWC, July 10 th – 13 th , 2017, Westin Copley Place, Boston, MA, USA
(2)	MMDR -6 Organized by Prof. Dr. Atta-ur-Rahman, FRS at the PCMD, November 6-9, 2017.
(3)	Global Biotechnology Congress 2017, organized by the Chairman of International Advisory Board of GBC, July 10 th – 13 th , 2017, Westin Copley Place, Boston, MA, USA
(4)	An international Conference entitled, “14 th EURASIA Conference” organized as the Chairman of International Advisory Board of EUCAS-14 at the ICCBS during December 15-18, 2016.
(5)	Drug Discovery & Therapy World Congress 2016 and Global Biotechnology Congress, (2016) organized at the John B. Hynes Veterans Memorial Convention Center, Boston, USA during August 22-25, 2016.
(6)	7 th International Conference on Drug Discovery and Therapy organized, (2016) at Dubai, UAE. during February 15-18
(7)	NASIC-UiTM Symposium on “Drug Development from Indigenous Plants in Developing Countries”, organized as the President NASIC at the Atta-ur-Rahman Institute for Natural Products Discovery, during October 4-7, 2016 at Universiti Teknologi MARA, Puncak Alam Campus, Malaysia. .
(8)	An International Conference organized entitled, “5 th International Workshop Cum Training Course on Molecular Medicine and Drug Research”, during January 12-15, 2015 at the International Center for Chemical and Biological Sciences.
(9)	An International Conference organized entitled, “Drug Discovery & Therapy”, during July 22-25 at John B. Hynes Veterans Memorial Convention Center, Boston, USA.
(10)	An International Conferences organized entitled, “Global Biotechnology Congress 2015”, during July 22-25 at John B. Hynes Veterans Memorial Convention Center, Boston, USA
(11)	An International Conference Cum Workshop organized entitled, “NASIC Conference Cum Workshop on Herbal Drug Development for Socio –Economic Uplift in Developing World” during September 06-08, 2015 at Jordan.
(12)	President, organizing Committee, “NASIC Workshop on Modern Spectroscopic Techniques and their Applications in Structure Determination” held at ICCBS during December 1-3, 2014.
(13)	President of Organizing Committee of the “Drug Discovery and Therapy World Congress”

	2014, held at, John B. Hynes Memorial Convention Center, Boston, USA Boston during June 16-19, 2014.
(14)	President of Organizing Committee of the “ <i>Global Biotechnology Congress 2014</i> ” 2014, held at Boston during June 16-19, 2014.
(15)	President of the organizing committee of “ <i>National Science Conference</i> ” held at ICCBS Institutions, in collaboration with Pakistan Academy of Sciences during May -01-03, 2014
(16)	Chairman organizing committee of “ <i>IYCr South Asia Summit Meeting on vistas on structural chemistry</i> ” held at ICCBS Institutions during April 28-30, 2014.
(17)	President of Organizing Committee of the “ <i>6th International Conference on Drug Discovery and Therapy</i> ” held at Dubai during February 10 th – 12 th , 2014.
(18)	President Organizing Committee of the “ <i>Drug Discovery and Therapy World Congress</i> ” 2014, held at Boston during June 03-06, 2013
(19)	President Organizing Committee at the <i>5th International Conference on Drug Discovery and Therapy</i> held at Dubai during February 18 th – 21 st , 2013
(20)	President Organizing Committee at the “ <i>2nd Biotechnology World Congress</i> ” 2014, held at Dubai during February 18-21 st , 2013
(21)	President Organizing Committee of the <i>4th International Conference on Drug Discovery and Therapy</i> “ held at Dubai during February 12 th -15 th , 2012.
(22)	President of Organizing Committee at the “ <i>1st Biotechnology World Congress</i> ”, held at Dubai during February 14 th - 15 th , 2012
(23)	President Organizing Committee at the <i>3rd International Conference on Drug Discovery and Therapy</i> ”, held at Dubai during February 7 th -10 th , 2011
(24)	President Organizing Committee at the <i>2nd International Conference on Drug Discovery and Therapy</i> ”, held at Dubai during February 1 st -4 th , 2010
(25)	President Organizing Committee at the <i>1st International Conference on Drug Discovery and Therapy</i> ”, held at Dubai during February 4 th -7 th , 2008
(26)	President Organizing Committee at the <i>6th International Conference on Drug Discovery and Therapy (ICDDT)</i> , Dubai Women’s College, Dubai, UAE, during February 18-21, 2014
(27)	Organized an International Conference entitled, “ <i>Drug Discovery and Therapy World Congress 2014</i> ” and World Biotechnology Congress 2014 at Boston, USA during June 3-6, 2013.
(28)	Chairman Organizing committee at the 4th MMDR Symposium cum Work shop at the Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences (ICCBS) Institutions, and delivered lecture entitled, “ <i>Some Adventures in "Natural Product Chemistry and Higher Education"</i> ” on January 7, 2013

(29)	President of Organizing Committee at the 5 th International Conference on Drug Discovery and Therapy (ICDDT), Dubai Women's College, Dubai, UAE, during February 18-21, 2013
(30)	Organized an International Conference entitled, "Drug Discovery and Therapy World Congress 2013" and World Biotechnology Congress 2013 at Boston, USA during June 3-6, 2013.
(31)	Organized an International Conference, World Biotechnology Congress 2013 at Boston, USA during June 3-6, 2013.
(32)	The 1 st International Symposium and Pakistan-U.S. Bi national Workshop on Natural Products Chemistry held in Hotel Intercontinental Karachi, from 5th-9th February 1984. The proceedings of this conference have been published by Springer-Verlag in 1986 and marketed internationally (Editor: Prof. Atta-ur-Rahman).
(33)	Organized and participated in the 2nd International Symposium, Pakistan-U.S. Bi national Workshop and U.N.E.S.C.O-S.C.A.M.A.P. Workshop on Natural Products Chemistry at Hotel Holiday Inn, Karachi from 18-25 January, 1986. The proceedings of the conference have been published and marketed internationally by Elsevier (Holland), (Editors: Prof. Atta-ur-Rahman and Prof. Philip W, Le Quesne).
(34)	Organized and participated in the International Workshop on Isolation and Structure Elucidation of Natural Products using spectroscopic Techniques at Hotel Pearl-Continental, Karachi from 11th-16th January 1987.
(35)	Prof. Atta-ur-Rahman organized the 3rd International Symposium and Pakistan-US Binational Workshop on Natural Product Chemistry from 9th-14 January 1988. The proceedings have been published by Springer-Verlag, West Germany, (Editors: Prof. Atta-ur-Rahman and Prof. P.W. Le Quesne).
(36)	Prof. Atta-ur-Rahman organized the 4th International Symposium and Pakistan-US Binational Workshop on Natural Product Chemistry at Hotel Holiday Inn, Karachi from January 1990 (conference inaugurated by President of Pakistan, inaugural lecture presented by Nobel Laureate Prof. H.C. Brown).
(37)	Prof. Atta-ur-Rahman organized the 2nd National Chemistry Conference in Karachi University from 28-30th December, 1990.
(38)	Prof. Atta-ur-Rahman organized the 5th International Symposium and Pakistan-U.S. Binational Workshop on Natural Product Chemistry at Hotel Holiday Inn, Karachi from 5-9 January 1992. The Inaugural Lecture was presented by the Nobel Laureate Prof. Sir D.H.R. Barton.
(39)	Prof. Atta-ur-Rahman was Chairman of the Organizing Committee of the 19th IUPAC Symposium on the Chemistry of Natural Products in January 16-20, 1994 in Karachi, Pakistan.
(40)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the 6th International Symposium on the Chemistry of Natural Products and Pak-US Binational Workshop on GCMS in January 4-8, 1996 in Karachi, Pakistan.

(41)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the University Industry-Interaction Workshop in September 12-13, 1997 in Karachi, Pakistan.
(42)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the Workshop on Science and Technology in December 16-17, 1997 in Islamabad, Pakistan.
(43)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the 7th International Symposium on the Chemistry of Natural Products in December 28, 1997-January 1, 1998 in Karachi. Pakistan.
(44)	Organized the Natural Product Chemistry section at 9th IUPAC Congress on Pesticide Chemistry at London, U.K., 2-7 August, 1998.
(45)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the 8th International Symposium on the Chemistry of Natural Product in January 18-January 22, 2000 in Karachi, Pakistan.
(46)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the 7 th Eurasia Conference on Chemical Sciences, March 8-12, 2002, Karachi, Pakistan.
(47)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the 9 th International Symposium on Natural Product Chemistry, January 10-13, 2004 in Karachi, Pakistan
(48)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the 10 th International Symposium on Natural Product Chemistry, January 6-9, 2006 in Karachi, Pakistan.
(49)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the 11 th International Symposium on Natural Product Chemistry, 29 th October to 1 st November, 2008 in Karachi, Pakistan.
(50)	Prof. Atta-ur-Rahman was the Co-Chairman of the Organizing Committee of the 11 th Eurasia International Conference on Chemical Sciences, October 6-10, The Dead Sea, Jordan.
(51)	Prof. Atta-ur-Rahman was the Chairman of the Organizing Committee of the 12 th International Symposium on Natural Product Chemistry, November 22-25, 2010 in Karachi, Pakistan.
(52)	Prof. Atta-ur-Rahman was the member of Scientific Committee of the International Symposium on "New Challenges in Natural products Chemistry", Conference in honour of Prof. Dr. Ayhan Ulubelen, and deliver a lecture entitled, "Some adventures in natural product chemistry and Higher Education", Istanbul-Turkey, September 12-13, 2011.
(53)	Prof. Dr. Atta-ur-Rahman was the chairman of organizing committee and presented a lecture entitled, " <i>Discovery of Lead Molecules against Prevailing Diseases and Decade of Change in the landscape of Higher Education in Pakistan</i> " on January 03, 2011 on 3 rd International Symposium-cum-training course on Molecular Medicine and Drug Research at International center for Chemical and Biological Sciences on January 3-6, 2011.

(54)	Prof. Dr. Atta-ur-Rahman was the Chairman organizing committee and participated as the Chief Guest at the inauguration of the “2 nd International Conference on Molecular Medicine and Drug Research” at Dr. Panjwani Center for Molecular Medicine and Drug Research, on Jan, 12, 2009, held during Jan 12-15 2009, at ICCBS Karachi.
(55)	Prof Atta-ur-Rahman was the chairman organizing committee of 2 ND International Conference on Drug Discovery and Therapy during 1-4 February, 2010 at Dubai, UAE
(56)	Prof. Atta–ur-Rahman was the Chairman, organizing committee of the 12 th International Symposium on Natural Product Chemistry held at HEJ during November 22-25, 2010 and presented a lecture entitled “ <i>Discovery of Bioactive Constituents of Natural Origin and changes in Landscape of Higher Education in Pakistan</i> ” on November 22, 2010 at Karachi
(57)	Prof. Attah –ur-Rahman was the Chairman, organizing committee of the 3 RD International Symposium-cum-training course on Molecular Medicine and Drug Research held during January 3-6, 2011 .at Karachi
(58)	Prof. Atta-ur-Rahman is the President of organizing committee of the 4 th International Conference on Drug Discovery and Therapy, held during February 12, 2012 at Dubai, UAE.
(59)	Prof. Atta-ur-Rahman was the chairman organizing committee of the 13 th International Symposium on Natural Product Chemistry” held during November 22-25, 2012 and presented a Plenary lecture entitled, “Entitled “ <i>Some recent discoveries in Natural Products Chemistry and rise and fall of Higher Education in Pakistan A lesson not learned</i> ” on September 22, 2012 at Karachi.
(60)	Prof. Atta-ur-Rahman was the president organizing committee of NASIC International Conference entitle, “Biodiversity in Desert Areas: Present Status, Threats & Remediation” during September 12-13, 2012 at Rabbat, Morocco.
(61)	Prof. Atta–ur-Rahman was the Chairman, organizing committee of the 3 RD International Symposium-cum-training course on Molecular Medicine and Drug Research held during January 3-6, 2011 .at Karachi
(62)	Prof. Atta–ur-Rahman was the Chairman, organizing committee of the 3 RD International Symposium-cum-training course on Molecular Medicine and Drug Research held during January 3-6, 2011 .at Karachi

PARTICIPATION IN INTERNATIONAL CONFERENCES

- (1). Lecture in National Conference at Department of Chemistry, Forman Christian College, Lahore, Inaugural Session, January 18, 2017, entitled, "The Exciting World of Innovation: Challenges".
- (2). Lecture under the Distinguished Lecture Series at the Arts Auditorium, University of Karachi, February 16, 2017, entitled, "Science Technology and Innovation: Imperatives for Socio-economic Development"
- (3). Lecture in The Oxbridge Lecture at Kehkashan Hall, Serena Hotel, Islamabad, March 10, 2017, entitled, "Hydrodiplomacy between Pakistan and India to Prevent Water War between Two Nuclear States – Role of World Bank, US, China, Europe, Japan and other Countries".
- (4). Lecture in Beaconhouse Schooling System at Pak-China Friendship Center, Inauguration at the auditorium of PAK China Friendship Center, March 11, 2017 entitled, "The Exciting World of Tomorrow: Beyond Imagination".
- (5). Lecture in the International Conference on 'Climate Change and Biodiversity' at The Islamia University of Bahawalpur, May 2, 2017, entitled, "The Exciting World of Innovation".
- (6). Lecture in the National Defense University (NDU), Islamabad, August 18, 2017, entitled "Pakistan Future Development-Transitioning to a Knowledge Economy".
- (7). Lecture in International Conference on Sustainable Energy Technologies organized by US-Pakistan Center for Advanced Studies in Energy (USPCAS-E), at University of Engineering and Technology, Peshawar, on Sep. 12-13, 2017, entitled, "The Exciting World of Discovery"
- (8). Lecture organized by IPR, at the Pakistan Academy of Sciences, Islamabad, September 12, 2017, entitled, "Transforming Economy: Innovation and Policies for Sustained High Growth".
- (9). Lecture in International Conference theme 'Trends and Prospects in Molecular Biosciences' organized by Institute of Biochemistry and Biotechnology (IBB) in collaboration with Pakistan Society for Biochemistry and Molecular Biology (PSBMB) at Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore, October 23-24, 2017, entitled, "Science, Technology and Innovation for Socio-economic Development".
- (10). Lecture in Honorary Professor's Appointment Ceremony at Hunan University of Traditional *Chinese Medicine, Changsha, China, November 02, 2017, entitled* "Some Recent Adventures in Natural Product Chemistry and Higher Education".
- (11). Lecture in 6th International Symposium-cum-Training Course on Molecular Medicine and Drug Research, Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, November 6-9, 2017, entitled, "Disruptive Innovations: the Exciting World of Discovery".
- (12). Lecture in International Workshop on Application of NMR in Pharmaceuticals, Phytotherapeutics and Medicine, Faculty of Pharmacy, Bezmialem Vakif University, Istanbul, Turkey November 14-17, 2017, entitled, "NMR in Drug Discovery and Life Sciences".
- (13). Lecture in Leaders Summit, organized by Chartered Accountants Women's Committee, Karachi, December 14, 2017, entitled, "4th Industrial Revolution: A game Changer for Pakistan?".
- (14). Chief Guest at the Pak-China Congress held on January 08, 2016 at Karachi and delivered a lecture entitled, "*The Exciting World of Medical Discovery*".

- (15). Lecture delivered at the 3rd International Conference on Environmental Horizons on January 09, 2016 at Karachi entitled “*Environmental Horizons: The World of Tomorrow*”
- (16). Lecture delivered at the workshop on “Unlocking the Industrial Potential of Seaweed Resource in Sri Lanka” at the Sri Lanka Institute of Nanotechnology, (SLITNEC), Sri Lanka on January 13, 2016 at Colombo, Sri Lanka entitled, “*Innovation: An imperative for Industrial and Socio-economic Development*”.
- (17). Lecture delivered at the Sir Kotlewala Defence University on January 13 at Colombo, Sri Lanka entitled “*Exciting World of Discovery*”.
- (18). Lecture delivered in the workshop entitled, “Restructuring the Science and Higher Education Platforms in Pakistan” in the 1st International Conference on Bioscience and Biotechnology in Colombo, Sri Lanka on January 12, 2016 entitled “*Higher Education: Imperatives for Socio-Economic Development*”.
- (19). Keynote address at the conference entitled, “Strengthening Human Governance for Sustainable Ease of Doing Business Index In Pakistan” .at Islamabad on January 21, 2016 entitled, “*Innovation for Socio-Economic Development*”.
- (20). Chief Guest at the Inaugural Ceremony and delivered a lecture in the “Joint 2nd Annual Conference of Ziauddin University with European Society of Translational Medicine from Discovery to Health Care” in Karachi, on February 1, 2016 entitled, “*Exciting Recent Advances in Medical Sciences*”.
- (21). Address at the Marketing Association of Pakistan’s Tea Meeting entitled “Pakistan – Islands of Excellence” in Karachi, on February 3, 2016, entitled, “*Innovation in Socio-Economic Development*”.
- (22). Lecture delivered under the Distinguished Lecture Series at the Arts Auditorium, University of Karachi on February 04, 2016 entitled, “*Knowledge as Engine for Socio-Economic Development.*”
- (23). Chairman Organizing Committee of the 7th International Conference on Drug Discovery and Therapy, held during February 15– 18, 2016 in Dubai, UAE.
- (24). Chief Guest and Principal keynote address delivered at the 3rd E-Learning and Distance Education Conference – ELDEC, held on March 14, 2016 in Lahore entitled, “*Science and Innovation: Imperatives for Socio-Economic Development*”.
- (25). Participated in a cross conference “Afkar-e-Taza” on April 01, 2016 at Karachi and delivered a presentation entitled, “*Wondrous World of Discovery*”.
- (26). Keynote Speaker at the PSTD’s (Pakistan Society for Training and Development (PSTD) 50 Years Conference entitled, “Re-imagining and Re-thinking Capabilities of Human Resources in Pakistan”, held on May 18, 2016. The address entitled, “*Knowledge as Engine for Socio-Economic Development.*”
- (27). Plenary lecture delivered at the Beijing Forum 2016 held on May 24 in Islamabad entitled “*Transitioning to a Knowledge Economy: Partnering with China*”.
- (28). Chief Guest and lecture delivered at the Education & Career Expo 2016 held in Karachi on May 28, 2016 entitled, “Transitioning to a Knowledge Economy”

- (29). Keynote address delivered at the PAUN International Conference held on July 23 2016 in Islamabad Entitled, "Education our Forum".
- (30). Lecture Delivered at the Qatar Foundation organized under the QNRF (Qatar National Research Fund) on August 16, 2016 in Doha, Qatar entitled "*The Exciting World of Discovery*".
- (31). Invited as a plenary speaker at the Kalbe Science Award 2016 held on August 20 at Jakarta, Indonesia. The address entitled, "*Wondrous World of Discovery*".
- (32). Lecture delivered at the Institute of Space Technology, IST Commencement Day on August 31 at Islamabad entitled, "The Exciting World of Science".
- (33). Invited as a Chief Guest and Lecture delivered at an international Conference on "Role of Chemistry in Environmental Protection and Drug Development" held on September 01 at Jinnah Women University, Karachi entitled, "*Exciting World of Discovery*".
- (34). Plenary Lecture delivered at the 29th International Symposium on the Chemistry of Natural Products and the 9th International Conference on Biodiversity" (ISCNP-29 & ICOB-9) held on September 25 at Kaya Thermal Convention Center, Amman, Jordan entitled, "*Some Adventures in Bioactive Natural Products and Higher Education*".
- (35). NASIC-UiTM Symposium on "Drug Development from Indigenous Plants in Developing Countries", organized as the President NASIC at the Atta-ur-Rahman Institute for Natural Products Discovery, during October 4-7, 2016 at Universiti Teknologi MARA, Puncak Alam Campus, Selangor, Malaysia and the lecture delivered entitled, "*The Exciting World of Science: Technology and Innovation*" on October 07, 2016.
- (36). Keynote Speaker at Annual Post Graduate Medical Education, (PGME) Conference 2016 held on Oct 15, 2016 at A K U Auditorium and the lecture entitled, "*Disruptive Innovations: The Exciting World of Discovery*"
- (37). Lecture delivered at the 4th International Conference of "Excellence in Pharmacy Education & Research: A Quality Approach" held on October 25, 2016 at the School of Pharmacy at University of Jordan, Amman, Jordan entitled, "*The Wondrous World of Discovery*".
- (38). Presented a lecture at the IDB Advisory Panel on Science and Technology held on October 27, 2016 at the IDB Headquarters, Jeddah, Saudi Arabia entitled "Innovation & Entrepreneurship: Imperatives for Development".
- (39). Invited as a Keynote Speaker at the 14th international Conference on "Arab Universities: Science, Technology and Innovation" held on November 05, 2016 organized by Arab Academy of Sciences in Beirut, Lebanon. The lecture entitled, "The Wondrous World of Discovery".
- (40). *Keynote Speaker at the "5th Annual Regional Event Asia Management Conclave"* held on November 16, 2016 in Lahore. The lecture entitled, "*Transitioning to a Knowledge Economy*"
- (41). Chief Guest and Presentation at the 1st Annual Invention to Innovation Summit 2016-Sindh, session "Life Science Technologies for Product Development" held on December 06, 2016 at the Department of Teacher Education, University of Karachi entitled, "Recent Exciting Innovation in Health Sciences"
- (42). Keynote Address delivered at the inauguration of 14th Eurasia Conference held on December 15, 2016 at the ICCBS, Karachi entitled, "Transitioning to a Knowledge Economy: Opportunities and Challenges".

- (43). Lecture at the International Conference on Innovation Strategies for Sustainable Development held on December 19 in Islamabad entitled “Disruptive Innovations: *The Exciting World of Discovery*”.
- (44). Plenary Lecture delivered at the Inauguration of the Conference on Environmental Horizons entitled, “Environmental Horizons: The World of Tomorrow” jointly organized by Department of Chemistry and ICCBS at the Prof. Salimuzzaman Siddiqui auditorium on January 21, 2015.
- (45). Lecture delivered at the Pakistan Engineer’s Forum ‘Education in Pakistan-problem and its solutions’ held on February “Education, Innovation and Entrepreneurship: Imperatives for Progress” on February 21, 2015 at Doha, Qatar
- (46). Lecture delivered at DHA Suffa University entitled, “The Exciting World of Discovery” on February 27, 2015 at Karachi
- (47). Chief Guest and a Plenary Lecture delivered in an International conference on recent Innovation in Pharmaceutical Sciences, organized by Riphah International University, entitled, “Some Adventures In Natural Product Chemistry And Higher Education”, in Islamabad on March 03, 2015.
- (48). Lecture delivered as a Chief Guest and the Key note Address to Old Ravians Association, entitled, “Pakistan and its challenges ahead” on March 23, 2015 at Defence Authority Creek Club, Karachi.
- (49). Lecture delivered as Chief Guest at the 3rd Pakistan CIO Summit & Expo & 1st IT Showcase Pakistan 2015 entitled, “The Thrilling World of Innovation” on March 31, 2015.
- (50). Lecture entitled “Research and Innovation in Socio-Economic Development” delivered at Ordinance College, Malir Cantt. Karachi on June 03, 2015
- (51). Lecture delivered in connection with Independence day celebration jointly organized by ICCBS and Federation of Pakistan Chambers of Commerce and Industry, entitled, “The Exciting World of Discovery-The Pakistan Perspective”, at Prof. Salimuzzaman Siddiqui Auditorium on August 13, 2015.
- (52). Lecture organized by IPR, held at HEC Auditorium delivered by “Building a Knowledge Economy”, Islamabad on September 02, 2015.
- (53). Keynote address delivered at the “NASIC Conference Cum Workshop on Herbal Drug Development for Socio–Economic Uplift in Developing World”, entitled, “Science and Technology- A Great Equalizer” organized by University of Jordan at Amman on September 06, 2015.
- (54). Keynote address delivered at the “International Conference on Natural Products and Drug Discovery” held under the Royal Patronage of HRH Princess Sumaya Bint El Hassan at the University of Jordan, entitled, “Adventures in Natural Products Chemistry and Higher Education”, at Amman, on September 08, 2015.
- (55). Plenary Lecture delivered at the “International Conference on Natural Products and Drug Discovery” held under the Royal Patronage of HRH Princess Sumaya Bint El Hassan at the University of Jordan entitled, “Drug Lead Discovery From Nature- Case Study 1”, on September 09, 2015
- (56). An honorary speech on Award felicitation ceremony on behalf of Prof. Wolfgang Voelter at Tübingen University on October 14, 2015.
- (57). Lecture delivered as guest speaker at Rotary Club of Karachi entitled, “Science and Technology for Socio Economic Development” on October 19, 2015.
- (58). Chief guest and Inaugural Address at the 12th National Annual Symposium of Pediatric Cardiology and Cardiac Surgery on 31st Oct, 2015 at AKUH in the Ruffyda Auditorium

- (59). Presentation delivered at Second Regional workshop on "Harnessing Science, Technology and Innovation for Sustainable Development", entitled, "Science, Technology and Innovation for sustainable Socio Economic Development" held at Meeting Room, United Nations Conference Centre, Bangkok on November 02, 2015.
- (60). Special Lecture held at AuRIns, Kuala Lumpur, Malaysia entitled, "Science, Technology and Innovation: Some Adventures in Natural Product Chemistry and Higher Education" November 04, 2015.
- (61). Keynote address entitled, "Science, Technology and Innovation for Sustainable Socio-Economic Development" at the "2015 Education Forum for Asia Annual Conference" held at Changdu, China on November 07, 2015.
- (62). Lecture entitled at the Main Auditorium of Indus University,, "Wonderful World of Discovery", delivered Karachi on November 25, 2015.
- (63). Inaugural address entitled, "Time to Wake Up and Transition to Knowledge Economies" at the International Symposium on the theme "What new mechanisms of financing Science, technology innovation in Africa held at King Fahd Palace- Hotel, Dakar, Senegal on December 09, 2015.
- (64). President, Organizing Committee of the "NASIC Workshop on Modern Spectroscopic Techniques and their Applications in Structure Determination", held at International Center for Chemical and Biological Sciences during December 1-3, 2014.
- (65). President, Organizing Committee of the "Drug Discovery and Therapy World Congress 2014", held at John B. Hynes Memorial Convention Center, Boston, USA during June 16-19, 2014.
- (66). President, Organizing Committee of the "Global Biotechnology Congress 2014", held at John B. Hynes Memorial Convention Center, Boston, USA during June 16-19, 2014.
- (67). President, Organizing Committee of "National Science Conference" held at ICCBS Institutions, in collaboration with Pakistan Academy of Sciences during May 01-03, 2014
- (68). Chairman, Organizing Committee of "IYCr South Asia Summit Meeting on vistas on Structural Chemistry" held at ICCBS Institutions during April 28-30, 2014.
- (69). President, Organizing Committee of the "6th International Conference on Drug Discovery and Therapy" held at Dubai during February 10th – 12th, 2014.
- (70). Chief Guest at Convention Center, Liaquat National Hospital and delivered a lecture, organized by the Department of Biochemistry, LNH on January 10, 2014, entitled, "Chemistry in Life".
- (71). Plenary speaker at the conference entitled, "Innovative Approaches in Chemical and Biological Sciences" at Government College University Islamabad and delivered a lecture in the session dedicated to him, February 18-21, 2014, entitled, "Some Adventures in Natural Product Chemistry".
- (72). Chief Guest at the "Beaconhouse High Achievers Ceremony", Islamabad and delivered a lecture on March 08, 2014, entitled, "Wondrous World of Science".
- (73). Keynote address at the Marketing Congress in Lahore on March 11, 2014, entitled, "Science, Technology and Imperatives for socio-Economic Development"
- (74). Keynote Speaker at the 2nd CIO Summit and Expo 2014, at Marriott Hotel, Karachi, on March 25, 2014 entitled, "Wondrous World of Discovery".
- (75). Keynote address entitled, "delivered to the students of Waters at the Institute of Chemistry Ceylon on April 02, 2014" "Wonderful World of Chemistry".

- (76). Inaugural address at the Convocation cum Conference, “Chemical Education and Research for Sustainable Industrial Development and Economic Growth, at the Institute of Chemistry, Ceylon on April 03, 2014 entitled, “Developing a Knowledge Economy”.
- (77). Plenary lecture at the Adamantane House, Sri Lanka on April 04, 2014 entitled, “Some Adventures in Natural Product Chemistry and Higher Education”.
- (78). Delivered a lecture at the Federal Urdu University of Science and Technology on April 16, 2014 entitled, “Wondrous World of Chemistry”.
- (79). Plenary lecture delivered at the Plenary Session “Promotion of Higher Education, Science and Technology and International Cooperation in Pakistan” in IYCr South Asia Summit Meeting on Vistas on Structural Chemistry at the ICCBS Institutions on April 29, 2014 entitled, “Wondrous World of Science”.
- (80). Plenary lecture at the Inauguration of National Science Conference jointly organized by the Pakistan Academy of Sciences and ICCBS Institutions at ICCBS on May 01, 2014, entitled, “Wondrous World of Science”.
- (81). Delivered a lecture at Bait-ul- Hikmah as a “Hakeem Said Lecture”, May 15, 2014, entitled, “Wondrous World of Science”.
- (82). Attended as the Chief Guest and delivered a lecture in the “7th Power Generation and Energy Forum 2014” on May 22, 2014 entitled, “Energy Scenario in Pakistan”.
- (83). Delivered a lecture at the IEP Technical Seminar at Prince Salman Social Conference Center in Riyadh on May 29, 2014 entitled, "Higher Education, Science, Technology and Innovation - --Imperatives for Socio-Economic Development".
- (84). Delivered a lecture, Science and Education at the Plenary Session entitled, “Expanding Developmental Horizons through Education, Research and Innovation: Military Perspective” in KDU International Research Conference 2014, Sri Lanka on August 21, 2014, entitled, “Some Adventures in Natural Product Chemistry”.
- (85). Delivered a lecture at the Pakistan High Commission in India under "Pakistan High Commission Lecture Series" in Delhi, India on August 29, 2014, entitled, “Exciting World of Chemistry”.
- (86). Delivered a lecture under the “Distinguished Lecture Series” at the Arts Auditorium of University of Karachi on September 02, 2014, entitled, “The World of Research and Discovery”.
- (87). Delivered a lecture, at Hamdard Thinker’s forum at Hamdard Center on September 11, 2014 entitled, “Intakhabi Islahaat”.
- (88). Delivered a lecture in the workshop on “Furture Challenges of Education”, arranged by Youth Wing of All Pakistan Memon Federation on September 14, 2014. entitled, "The Exciting World of Discovery"
- (89). Delivered a lecture at the award conferring ceremony on him entitled, “International Scientific Cooperation of the Chinese Academy of Sciences” held at the Chinese Academy of Sciences, Beijing, China on September 28, 2014 entitled, “The Wonderful World of Scientific Discovery”.
- (90). Chief Guest and the Keynote Speaker at the Inauguration of “Research Congress” of Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka, and delivered a lecture entitled, “The Wondrous World of Science”, on October 10, 2014.
- (91). Chief Guest and Keynote Speaker at the workshop entitled, “Investigating Bioactive Metabolites from Natural Sources: Enzyme inhibitory Studies, NMR and LC-MS”.

- Interpretation” held at the IFS, Kandy, Sri Lanka on October 13, 2014 a entitled, “*The Wondrous World of Science*”,
- (92). Plenary lecture in the “28th International Symposium on Chemistry of Natural Product” at Institute of Materia Medica, Shanghai, China on October 20, 2014 entitled, “*Some Adventures in Natural Product Chemistry*.”
 - (93). Delivered a lecture at the TWAS Conference held during TWAS 25th General Meeting in Muscat, Sultanate of Oman on October 27, 2014 entitled, “*The Wondrous World of Science*”,
 - (94). Plenary lecture delivered in the 7th World Congress on Productive and Regenerative Medicines (7th WCPRM) at National Taiwan University, Taipei, Taiwan on November 05, 2014 entitled, “*Some Adventures in Natural Product Chemistry and Higher Education*”,
 - (95). Delivered a lecture as an “International Distinguished Lecturer” organized through International Affairs office at Academia Sinica in conjunction with the Graduate Student Association of the Taiwan International Graduate Program held at Academia Sinica on November 07, 2014 entitled, “*The Wondrous World of Science*”
 - (96). Delivered a lecture on the “World Science Day” announced by UNESCO, organized by National Academy of Young Scientists (NAYS) at ICCBS Institutions on November 10, 2014 entitled, “*The Thrilling World of Discovery*”.
 - (97). Delivered a lecture at the Regent Plaza at the Business Management Conference 2014 on November 15, 2014, entitled, “*The Exciting World of Discovery*”.
 - (98). Chief Guest at the “NASIC Workshop on Modern Spectroscopic Techniques and their Applications in Structure Determination”, at ICCBS on December 01, 2014 and delivered a lecture entitled, “*Exciting World of Discovery*”,.
 - (99). Chief Guest at the closing ceremony of BURAQ conference entitled, “Changing Perception Through Visions of Space” in Islamabad on December 31, 2014.and delivered a lecture entitled, “*Thrilling World of Discovery*”.
 - (100). Chairman Organizing committee at the 4th MMDR Symposium cum Work shop at the Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences (ICCBS) Institutions, and delivered lecture entitled, “*Some Adventures in "Natural Product Chemistry and Higher Education"*”.on January 7, 2013
 - (101). President of Organizing Committee at the 5th International Conference on Drug Discovery and Therapy (ICDDT), Dubai Women’s College, Dubai, UAE, during February 18-21, 2013.
 - (102). Presented the Jack Cannon lecture at the inauguration of the Natural Product Chemistry Conference (NPC 2013) at University of Technology Mara, UiTM, Malaysia, on March 04, 2013.
 - (103). Presented a plenary lecture entitled, “*Transitioning to a Knowledge Economy*”.at the Going global Conference 2013 at Dubai, on March 06, 2013,
 - (104). Participated as a Keynote Speaker and delivered a lecture entitled, “*Unleashing Our Creative Potential*”.at the Pakistan India Leadership & Human Capital Summit on March 13, 2013.
 - (105). Delivered a lecture at the conference, entitled, “*Religion and the Idea of a University*”. held at the Clare College, Cambridge, UK, on April 05, 2013.
 - (106). Participated and delivered a lecture entitled, “*Positioning the bank in its intervention on Science Technology and Innovation*”at the Ninth meeting of the IDB Advisory Panel on Science and Technology, at IDB Headquarters, Jeddah, Saudi Arabia, on April 27, 2013..
 - (107). Participated as the Guest of Honor and keynote speaker and delivered a lecture entitled, “*Transitioning to a Knowledge Economy*” at the 10th Convocation of Zia Uddin University at Expo Center Karachi on April 30, 2013.

- (108). Delivered a lecture entitled "*Importance of Research and Development*" as a .Guest Speaker at the Ordinance College, Karachi on May 02, 2013.
- (109). Delivered a plenary lecture entitled, "*Transitioning to a Knowledge Economy: Challenges and Opportunities for OIC Member States*" at the 19th IAS International Scientific Conference held at Dhaka, Bangladesh on May 06, 2013..
- (110). Delivered a lecture entitled, "*Future of Higher Education in Pakistan*" as the Chief Guest at the Pakistan Chamber of Commerce and Industry Seminar held at Karachi on May 25, 2013.
- (111). Organized an International Conference entitled, "Drug Discovery and Therapy World Congress 2013" and World Biotechnology Congress 2013 at Boston, USA during June 3-6, 2013.
- (112). Organized an International Conference, World Biotechnology Congress 2013 at Boston, USA during June 3-6, 2013.
- (113). Delivered a lecture entitled, "*Unleashing Our Creative Potential*" as a Chief Guest at the First International Conference on Sensing for Industry, Control, Communications, and Security Technologies, (ICSICCST 2013) at Prof. Salimuzzaman Siddiqui Auditorium on June 24, 2013.
- (114). Delivered a lecture entitled, "*Key Concepts on Research Excellence and Success of Pakistan*" at General Sir John Kotelawala Defence University, Kandawal, Ratmalana, Colombo, Sri Lanka on July 04, 2013.
- (115). Delivered a lecture entitled, "*Science, Technology and Higher Education-Imperatives for National Development*".in an International Conference on Driving Research towards Economy: opportunities and challenges from SLAYS at National Science Foundation Auditorium, Colombo,Sri Lanka on July 5, 2013.
- (116). **Lecture** entitled, "*Pakistan-China Cooperation: Opportunities and Challenges*".**at** the First Annual China Pakistan Joint Think Tank (CPJTT) Conference in Tsinghua University, Tsinghua, China on August 31, 2013.
- (117). Lecture entitled, "*Recent Advances in Natural Product Chemistry*".delivered at the Institute of Chinese Materia Medica (SIMM), Chinese Academy of Sciences, Shanghai, China on September 10, 2013.
- (118). Delivered a lecture entitled, "*Pakistan's Energy Crises*".as a Chief Guest at the Hunan University of Chinese Medicine, Changsha, China on September 12, 2013.
- (119). Pak-China (PAS-CAS) Bi-National Symposium organized at Urumqui, China during September 16-17, 2013.
- (120). Delivered a lecture entitled, "*A Revolution in Higher Education*" as a plenary speaker at the VC Forum, COMSATS Institute of Information Technology, Islamabad on September 23, 2013.
- (121). Delivered a lecture entitled, "*Exploring Mars – Discovering Earth*" as a .Chief Guest at World Space Week held at SUPARCO Headquarters, Islamabad on October 4, 2013.
- (122). Delivered a lecture entitled, "Energy Crises in Pakistan" as a Chief Guest at the inauguration of the International Conference on Mineral Water and Energy Resources at Karachi on October 05, 2013.
- (123). Participated as a distinguished speakers at the Centenary Conference of the Association of the Commonwealth Universities (ACU), entitled, "*Universities of Tomorrow: Agents of Change*" held atSenate House, University of London, UK on October 16, 2013..
- (124). Delivered a lecture entitled, "*Some Adventures in Natural Product Chemistry and Higher Education*" at the 4th BCNP, Conference on Natural Products and the Annual Meeting on

Molecular Evolution, Systemic and Ecology (RESM) in Natal, the Capital of Rio Grande do Renata Mendonça Araújo, Brazil on October 29, 2013.

- (125). Delivered a lecture entitled, "*Importance of Research and Development*". As a guest speaker at the Ordinance College, Karachi on November 12, 2013.
- (126). Delivered an online lecture entitled, "*The Wondrous World of Science*" held at Pakistan Academy of Sciences, Islamabad under a lecture series initiated by the PAS and COMSATS, Islamabad, on November 25, 2013.
- (127). Delivered a lecture entitled, "*Science, Technology and Higher Education-Imperatives for Socio-Economic Development*" as a Chief Guest at the Conference organized by Network of Academies of Science in Countries of the Organization of Islamic Conference (NASIC) Islamabad on November 26, 2013.
- (128). Keynote address entitled, "The Role of Universities in the Knowledge Society in Sri Lanka".delivered as te Guest of Honor at the "Committee of the Vice Chancellors and Directors (CVCD) Research Conference- 2013", Sri Lanka on November 29, 2013.
- (129). Delivered a lecture entitled, "*Changing the Landscape of Higher Education, Science and Technology in Pakistan*" as a Chairman, Organizing Committee and Keynote Speaker at the 14th Asian Symposium on Medicinal Plants, Spices and other Natural Products, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan on December 9, 2013.
- (130). A presentation entitled, "LEJ for learning" presented at the global launching of the website of integrated courses "LEJ Knowledge Hub" held at the Sindh Governor House, Karachi on December 12, 2013.
- (131). Chief Guest at the closing ceremony of ICICT 2013 held at IBA City Campus, Karachi on December 15, 2013.
- (132). Delivered a lecture entitled, "*Changing Perceptions through visions of space*" as a Chief Guest at the closing ceremony of BURAQ Conference held at Islamabad on December 30, 2013.
- (133). Delivered a lecture entitled, "*Higher Education Science and Technology: Imperatives for Socio-Economic Development*" held at the Department of Leadership and Management Studies, National Defence University, Islamabad on December 31, 2013.
- (134). **Prof. Dr. Atta-ur-Rahman was the chairman of organizing committee and presented a lecture entitled, "*Discovery of Lead Molecules against Prevailing Diseases and Decade of Change in the landscape of Higher Education in Pakistan*" on January 03, 2011 on 3rd International Symposium-cum-training course on Molecular Medicine and Drug Research at International center for Chemical and Biological Sciences on January 3-6, 2011.**
- (135). **Prof. Dr. Atta-ur-Rahman** presented a lecture at the Multi Topic Symposium by IEEP on March 16, 2011 at Karachi.
- (136). **Prof. Dr. Atta-ur-Rahman** presented a lecture at the National "Mera Pakistan Conference" Organized by COMMECS and Karachi Chambers of Commerce on March 11, 2011 at Karachi.
- (137). **Prof. Dr. Atta-ur-Rahman was the chairman of organizing committee and presented a lecture entitled, "*Discovery of Lead Molecules against Prevailing Diseases and Decade of Change in the landscape of Higher Education in Pakistan*" on January 03, 2011 on 3rd International Symposium-cum-training course on Molecular Medicine and Drug Research at International center for Chemical and Biological Sciences on January 3-6, 2011.**

- (138). **Prof. Dr. Atta-ur-Rahman** presented a lecture at the Multi Topic Symposium by IEEP on March 16, 2011 at Karachi.
- (139). **Prof. Dr. Atta-ur-Rahman** presented a lecture at the National “Mera Pakistan Conference” Organized by COMMECS and Karachi Chambers of Commerce on March 11, 2011 at Karachi
- (140). **Prof. Dr. Atta-ur-Rahman was the chairman of organizing committee and presented a lecture entitled, “Discovery of Lead Molecules against Prevailing Diseases and Decade of Change in the landscape of Higher Education in Pakistan”** on January 03, 2011 on 3rd International Symposium-cum-training course on Molecular Medicine and Drug Research at International center for Chemical and Biological Sciences on January 3-6, 2011.
- (141). **Prof. Dr. Atta-ur-Rahman** presented a lecture at the Multi Topic Symposium by IEEP on March 16, 2011 at Karachi.
- (142). **Prof. Dr. Atta-ur-Rahman** presented a lecture at the National “Mera Pakistan Conference” Organized by COMMECS and Karachi Chambers of Commerce on March 11, 2011 at Karachi.
- (143). **Prof. Dr. Atta-ur-Rahman was the chairman of organizing committee and presented a lecture entitled, “Discovery of Lead Molecules against Prevailing Diseases and Decade of Change in the landscape of Higher Education in Pakistan”** on January 03, 2011 on 3rd International Symposium-cum-training course on Molecular Medicine and Drug Research at International center for Chemical and Biological Sciences on January 3-6, 2011.
- (144). **Prof. Dr. Atta-ur-Rahman** presented a lecture at the Multi Topic Symposium by IEEP on March 16, 2011 at Karachi.
- (145). **Prof. Dr. Atta-ur-Rahman** presented a lecture at the National “Mera Pakistan Conference” Organized by COMMECS and Karachi Chambers of Commerce on March 11, 2011 at Karachi.
- (146). Participated and presented a Special Lecture on “Changing Landscape of Higher Education, Science and Technology in Pakistan” during the 10th International Symposium on Natural Product Chemistry on 6th January, 2006.
- (147). Participated as a speaker in the “interactive Roundtable Session for the High Level Panel Meeting of the UN General Assembly” held in New York on 15th September 2005
- (148). Participated in Special High-Level Global Roundtable Forum at the United Nations on “Innovation and Investment: Science and Technology to meet the Millennium Development Goals” in New York, USA on 13th September 2005.
- (149). Participated in “Preparatory Forum of the Scholars and Intellectuals” ahead of the extraordinary session of the Islamic Summit Conference in Makkah from 9 – 11 September 2005
- (150). Presented Keynote Address in the Ministerial Roundtable on Science, Technology and Innovation to meet the MDGs at UN Headquarters in New York, USA, 29th June to 1st July 2005
- (151). Presented Keynote Address at the 8th Regular Session of the Commission on Science & Technology for Development at Geneva from 23rd to 27th May 2005
- (152). Presented Keynote Address in the Malaysia-IAS 2005 Science Conference and 1st Meeting of OIC Task Force on Vision 1441, 21st to 25th March, 2005
- (153). Presided over the Twenty-First Session of the EMACHR (WHO Eastern Mediterranean Advisory Committee on Health Research to take place in Regional Office, Cairo, Egypt, 13th to 15th March, 2005

- (154). Presented Keynote Address in Conference of Information and Communication Technology for Sustainable Development at Abu Dhabi, 11th to 12th December, 2004
- (155). Participated in the Third World Academy of Sciences (TWAS) 15th General Meeting at Trieste, Italy, 20th to 26 November, 2004
- (156). Participated as Keynote Speaker in the Inauguration of INASP Symposium in Oxford UK, 5th November, 2004
- (157). Participated as a Resource Person in the panel on “S&T Promotion, advice and application, for the achievement of the Millennium Development Goals” on the UN Commission for S&T for Development, 26th to 29 October, 2004, Vienna, Austria.
- (158). Participated as Keynote Speaker at Biennial Conference on Science and Technology (BICOST III), 15th to 17th September, 2004, Budapest, Hungary.
- (159). Participated in the 11th Meeting of the General Committee for the IDB Merit/M.Sc. Scholarship Program at IDB Headquarters, Jeddah, Saudi Arabia, 29th to 31st July, 2004
- (160). Participated and presented a Keynote Lecture at the 42nd Meeting of the WHO Global Advisory Committee on Health Research at Geneva, 2nd to 8th May, 2004.
- (161). Participated and presented a Plenary Lecture entitled “Natural Product Chemistry-At the Turn of the Century” at the 9th International Symposium on Natural Product Chemistry, held in Karachi, Pakistan from 10-13 January 2004.
- (162). Participated and presented Plenary Lecture entitled “Biodiversity-Source of new Pharmacophores” at the ICOB-4 & ISCNP-24 (IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications, held in New Delhi, India from 26-31 January, 2004
- (163). Gave Keynote Lecture at the Asia-Pacific Industrial Development Forum on Biotechnology at the Chengdu International Exhibition and Convention Center, Chengdu, China, 16th to 17th December, 2003.
- (164). Attended the World Summit on Information Society (WSIS) by United Nations at Geneva, Switzerland, 10th to 12th December, 2003
- (165). Gave Keynote Lecture at the Conference on Role of Science in Information Society (RSIS) at Geneva, Switzerland, 6th to 9th December, 2003.
- (166). Gave Keynote Lecture at the Conference on Role of Science in Information Society (RSIS) at Geneva, Switzerland, 6th to 9th December, 2003.
- (167). Gave Keynote Lecture at OIC Conference on Science & Technology at Kuala Lumpur, Malaysia, 6th to 10 October, 2003.
- (168). Attended the International Basic Science Program (IBSP) Meeting UNESCO Head quarters, Paris, 19th to 22 May, 2003
- (169). Attended and presented a Lecture at Workshop Capacity Building for Academies at Trieste-Italy, 5th to 7th March, 2003.
- (170). Participated and presented a Plenary Lecture entitled “Natural Products Chemistry at the Turn of the Century” at the 7th Eurasia Conference on Chemical Sciences held in Karachi, Pakistan from 8-12 March, 2002.
- (171). Participated and presented a Lecture at Pak Millennium Conference 2002 in Boston, 8th to 17 April, 2002.
- (172). Presented Keynote Address at the UNESCO Round Table of Ministers of Science Paris, France and Eleventh Islamic Academy of Sciences Conference at Rabat, Morocco, 22nd to 26th October 2001.

- (173). Participated and presented a Plenary Lecture entitled "Bioactive natural products - a potential source of new pharmacophores" at the 22nd IUPAC Symposium on the Chemistry of Natural Products held in Sao Paulo, Brazil from 4-8 September, 2000.
- (174). Presented a Plenary Lecture at the Brunei University on 3rd March, 2000.
- (175). Participated and presented a Plenary Lecture at the 8th International Symposium on Natural Product Chemistry held in Karachi, Pakistan from 18th to 22nd January, 2000.
- (176). Participated and presented a lecture at the 16th Expert Committee meeting on Vector Biology and Control entitled "Chemistry and Specifications of Pesticides" held in Geneva, Switzerland from 6th to 10th December, 1999.
- (177). Participated and presented a Special Lecture at the 7th International Conference and 11th General Conference of the Third World Academy of Sciences held in Dakar, Senegal from 22nd - 27th November, 1999. President of Senegal conferred TWAS Gold Medal on 22nd November, 1999 on outstanding scientific achievements.
- (178). Participated and presented a lecture at the Third Governing Body meeting of Inter-Islamic Network on Water Resources Development and Management held in Amman, Jordan from 18th to 21st September, 1999.
- (179). Participated and presented a lecture at the Ninth Islamic Academy of Science Conference "Science Education and Technology Management for Development in the Islamic World" held in Amman, Jordan from 26th to 31st July, 1999.
- (180). Participated and presented Plenary Lecture at the World Conference on Science in Budapest, Hungary from 24th June to 2nd July, 1999. Prof. Atta-ur-Rahman also awarded the "UNESCO Prize" by the Director General UNESCO on 29th June, 1999 in Budapest, Hungary
- (181). Attended the seventeenth session of the Executive Committee of COMSTECH, held in Damascus, Syria from 12th-16th April, 1999.
- (182). Participated and presented a Plenary Lecture at the 21st IUPAC Symposium on the Chemistry of Natural Products, held in Beijing, China from 11th to 18th October, 1998.
- (183). Delivered lecture at the Symposium on Planning and Management of Research Projects, organized by the King Abdulaziz City for Science & Technology in Saudi Arabia from 16-18 November, 1998.
- (184). Delivered lecture at the 9th IUPAC Congress on Pesticide Chemistry at London, U.K., 2-7 August, 1998.
- (185). Inaugurated and delivered a keynote address at the seminar on "Improving Productivities and Deepening Industrialisation in the Field of Electronics, Informatics and Telecommunications" in the OIC Member Countries in Cairo, Egypt, 19-23 June, 1998.
- (186). Delivered a lecture at the 4th International Conference in Tehran, Iran, 18-22 May, 1998.
- (187). Delivered Plenary Lecture at the 7th Asian Chemical Societies Conference at Hiroshima, Japan, from 17-21 May, 1997.
- (188). Delivered Invited Lecture at the 20th IUPAC Symposium on Natural Product Chemistry in Chicago. 1996.
- (189). Organized and delivered Plenary Lecture in the 7th International Symposium on the Chemistry of Natural Products, in December 28, 1997-January 1, 1998 in Karachi, Pakistan.
- (190). Organized and presented Plenary Lecture in the Workshop on Science and Technology in December 16-17, 1997 in Islamabad, Pakistan.
- (191). Organized and presented Plenary Lecture in the 7th International Symposium on the Chemistry of Natural Product in December 28, 1997 in Karachi, Pakistan.

- (192). Delivered Plenary Lecture at the Symposium on Bioactive Natural Products and attended the Rocky Mountain Regional meeting of the American Chemical Society, held in Colorado, U.S.A., from 9th to 12th June, 1996.
- (193). Organized and delivered lecture on the occasion of 6th International Symposium on the Chemistry of Natural Products and Pak-US Binational Workshop on GC-MS in January 4-8, 1996 in Karachi, Pakistan.
- (194). Delivered lecture on the occasion of 35th International Union of Pure & Applied Chemistry Congress. held from 14th to 19th August, 1995 in Istanbul, Turkey and also gave series of lectures on NMR Spectroscopy at the Faculty of Pharmacy, Gazi University, Turkey.
- (195). Delivered lecture in the Workshop in "Purification and Structure-Determination Techniques to Speed Drug Development" from 15th to 16th May, 1995 at San Francisco, U.S.A.
- (196). Delivered lecture on the occasion of International Conference on Science in Islamic Polity in the Twenty-first Century, organized by COMSTECH, from 26th to 30th March. 1995 in Islamabad.
- (197). Delivered lecture at the First International Meeting on Pharmacy and Pharmaceutical Sciences, from 4th to 7th September, 1994 at Istanbul, Turkey.
- (198). Organized and delivered lecture on the occasion of 19th IUPAC International Symposium on the Chemistry of Natural Products, held from 16th to 20th January, 1994 in Karachi
- (199). Organized and participated in the 5th International Symposium and Pakistan-U.S. Binational Workshop on Natural Product Chemistry at Hotel Holiday Inn, Karachi From 5-9 January 1992.
- (200). Participated and presented a poster, a Key Note Address at the 18th IUPAC symposium on the Chemistry of Natural Products from 30th August-4th September 1992 at Strasbourg, France
- (201). Participated and presented a Plenary Lecture at the "Regional Conference on Medicinal Products from Tropical Rain Forest" from 13-15 May 1991 at Kepong, Kuala Lumpur
- (202). Participated and presented a Plenary Lecture at a conference entitle "Fifty years of Chemistry in Sri Lanka, Golden Jubilee-Symposium on Natural Products Chemistry" from 20-23 May 1991 at Peradeniya, Sri Lanka
- (203). Participated and presented an invited Lecture at the "Gordon Research Conference 1991" from 22-26 July 1991 at New Hampton, USA.
- (204). Participated and presented a lecture at the "33rd IUPAC Congress" from 17-22 August, 1991 at Budapest, Hungary.
- (205). Participated and presented a Plenary Lecture at the Regional Seminar on Research Trends in Medicinal Plants. from 1-3 December 1991 at Dacca, Bangladesh.
- (206). Organized and Participated in the 2nd International Chemistry Conference in Karachi University from 28-30th December, 1990.
- (207). Participated in the Second General TWAS meeting Caracas, Venezuela from 18-20 October, 1990.
- (208). Participated in the First Review Group Meeting on Pesticides for the Revision of the WHO Guidelines for Drinking-Water Quality-gusto Garolfo (Milano), Italy from 28-30 June 1990 Organized by W.H.O.
- (209). Participated and presented a Plenary Lecture at the International Symposium on Natural Products Chemistry from February 12-15, 1990 at Katmandu, Nepal.
- (210). Participated and presented a invited Lecture at the 17th IUPAC International Symposium on the Chemistry of Natural Products from 4-9 February 1990 at Delhi, India.

- (211). Organized and participated the 4th International Symposium and Pakistan-US Binational Workshop on Natural Product Chemistry at Hotel Holiday Inn, Karachi from January 1990.
- (212). Presented Plenary Lecture at the Fifth International Conference on Islamic Medicine from 20-23 November 1989 at Cairo, Egypt.
- (213). Participated in the 31st National Organic Symposium at Cornell University, Ithaca U.S.A from 18th to 22nd June 1989
- (214). Participated in the W.H.O. Expert Panel meeting on W.H.O. Expert Committee meeting on the chemistry and specifications of Pesticides at W.H.O. headquarters, Geneva from 19 to 25 Sep. 1989.
- (215). Participated and presented a Plenary Lecture at the 1st National Chemistry Conference held in Peshawar in October 1989.
- (216). Participated and presented invited Lecture at Huang-Minlon Symposium on Organic Chemistry held in Shanghai, China from 7-10 November 1989.
- (217). Participated and presented Plenary lecture at a conference on Technologies and the Development of the Muslim World from 2 to 7 December, 1989 at Kuwait.
- (218). Presented Inaugural Lecture at the inauguration of the Institute of Fundamental Sciences in April 1988 in Peradinya, Sri Lanka.
- (219). Participated and presented Plenary Lecture at the Tokushima 88 Presymposium on "Natural Products Chemistry" from 28-29 May 1988 at Tokushima Bunri University, Japan
- (220). Participated and presented Invited Session Lecture at the "16th I.U.P.A.C. International Symposium on the Chemistry of Natural Products" from May 29-June 3rd 1988 at Kyoto, Japan
- (221). Participated and presented Plenary lecture at the "Second NAPRECA Symposium on Natural Products and Workshop on Development of Data bases", from 12-16 September 1988 at Nairobi, Kenya.
- (222). Participated and presented Plenary lecture at the "Sixth Asian Symposium on Medicinal Plants and Spices". (ASOMPS-VI) from 24-28 January 1989 at Bandung, Indonesia.
- (223). Presented Plenary Lecture at the Tokushima 88 Pre-Symposium, Tokushima from 28 to 29 May 1988.
- (224). Organized and Participated in the 3rd International Symposium and Pakistan-US Binational Workshop on Natural Product Chemistry from 19th-14th January, 1988.
- (225). Organized and presented Plenary Lecture at the International Workshop on "Isolation and Structure Elucidation of Natural Products using Spectroscopic Techniques", in Karachi from 11-16 January 1987.
- (226). Participated and presented a Plenary Lecture in the Second National Meeting of Chemists at King Saud University, Riyadh, from 7th-9th March 1987.
- (227). Participated in the Symposium on Organic Synthesis at Churchill College, University of Cambridge in July 1987.
- (228). Presented Plenary Lecture at the Fourth International Conference on "Chemistry and Biotechnology of Biologically Active Natural Products" at Budapest, from 10-14 August 1987.
- (229). Participated in the "11th International Congress of Heterocyclic Chemistry" at Heidelberg from 16-21 August 1987.
- (230). Participated in the "Second General Conference of Third World Academy of Sciences" held in Beijing from 11th to 18th September 1987.

- (231). Participated in 15th I.U.P.A.C. International Symposium on "The Chemistry of Natural Products" at the Hague (Holland) from 17th-22nd August, 1986.
- (232). Organized and Presented Plenary Lecture at the 2nd International symposium, U.N.E.S.C.O. - S.C.A.M.A.P. Workshop and Pakistan-U.S. Binational workshop on "Natural Products Chemistry" Karachi from 18th to 25th January, 1986.
- (233). Presented Plenary Lecture at the Sub-regional workshop organized by the Department of Chemistry, University of Indonesia from November 3rd-6th 1986.
- (234). Participated in the International Expert Panel Meeting on the issue of medicinal plants and to evaluate practical applications at Vienna from 10th-12th December, 1986.
- (235). Participated in the International U.N.E.S.C.O. Workshop on Spectroscopy at Peradinya, Sri-Lanka, 29th June -4th July, 1985.
- (236). Presented Plenary Lecture at the Third International Conference on the Chemistry and Biotechnology of Biologically Active Natural Products held in Sofia, Bulgaria from 16th to 21st September 1985.
- (237). Presented Plenary Lecture at the I.U.P.A.C. Symposium entitled "International Symposium on Organic Chemistry of Medicinal Natural Products" held in Shanghai, China from 10th to 13th November 1985.
- (238). Organized and participated in the 1st International Symposium and Pakistan-U.S. Binational Workshop on Natural Products Chemistry in Karachi (5th-9th February 1984).
- (239). Participated in 8th the International Symposium on Medicinal and Aromatic Plants in Seoul, Korea (August, 1984).
- (240). Participated in the Conference on "Chemistry and Developing Countries" in Norwich, England (September 1984).
- (241). Participated in the Conference on "Elements in Health and Disease" organized by Hamdard, Delhi (February 1983).
- (242). Presented Plenary Lecture in the Alfred Benzon Symposium on Natural Products and Drug Development in Copenhagen, Denmark (7-11th August 1983).
- (243). Participated in the 9th International Congress in Heterocyclic Chemistry and was chairman at a major session in Tokyo, Japan (21st-26th August 1983).
- (244). Participated in the World Health Organization meeting on Vector, Biology, and Control in Geneva, Switzerland (8th-14th November 1983).
- (245). Participated in Panel Meeting of International Organization of Chemistry in Development in Delhi, India (December 1983).
- (246). Member of the Government delegation to the First World Conference on Islamic Medicine at Kuwait (March 1981).
- (247). Participated in the 7th International Symposium on Organic Synthesis held in Oxford, England in July 1981.
- (248). Participated in Conference organized by G.T.Z./B.M.Z. on "Education and Development in Asian Bangkok (October 1981).
- (249). Represented Pakistan at the 4th Asian Symposium on Medicinal Plants and Spices, Bangkok (September 1980) (Chairman at two of the organic chemistry sessions, and Plenary Lecturer).
- (250). As U.N.I.D.O. expert on medicinal plants, Professor Rahman participated in the U.N.I.D.O. Consultants Meeting on Production of Drugs from Medicinal Plants (Lucknow, India, March 1978).

- (251). Represented Pakistan in the 3rd Asian Symposium on Medicinal Plants and Spices, Colombo, Sri Lanka (1977).
- (252). Member of the Government delegation in the First World Conference on Muslim Education at Jeddah (1977).
- (253). Represented Pakistan at the 27th International Union of Pure and Applied Chemistry Congress in Tokyo (October 1977) (Chairman at two of the organic chemistry sessions).
- (254). Participated in the I.U.P.A.C. Conference in Boston (1971).
- (255). Participated in the I.U.P.A.C. Conference in London (1968).
- (256). Participated as the keynote speaker at the Eisenhower Fellowships South Asia Regional Conference - SARC 2012 during September 27-29, 2012 and presented a lecture entitled, “ *Higher Education, Science & Technology --- Key Issues for Socio-Economic Development*”.at the opening session entitled, “*Education and Human Resource Challenges of South Asia Achieving its Full Potential in the 21st Century*” on September 27, 2012 at Colombo – Kings Court, Sri Lanka.
- (257). Participated as the vice president of the TWAS and presented a lecture entitled, “*Science, Technology and Innovation for Sustainable Socio-Economic Development*” at the TWAS 12th General Conference and 23rd General Meeting during 18-21 September, 2012 at Tianjin, China.
- (258). Participated as the Guest Speaker and presented a lecture entitled, “*Importance of Research in Socio Economic Development*” at the Commandant Ordinance College” on October 25, 2012 at Karachi.
- (259). Participated as the chief guest at the inauguration of first National Symposium on “New Horizons of Microbiology” at the Federal Urdu University, on November 07, 2012 at Karachi
- (260). Presented a lecture entitled, “Science Technology and Innovation for Socio-economic Development” at the open forum public lecture at the Islamia University of Bahawalpur on November 14, 2012 at Bahawalpur..
- (261). Participated as the keynote speaker and deliver a presentation entitled, “Using Technology to Leap-Frog” at the Global Launch of the first Sanitation Hackathon on November 30 at Lahore.
- (262). Attended the 1st Meeting of the High Level Panel Group on “Science, Technology and Innovation for Development “ at UNESCO Headquarters during 15-17 September, 2011 in Paris and he presented a lecture at the Public Session of the Panel with Permanent Delegations of UNESCO entitled “*Models for capacity building in science, technology and innovation*” on September 16, 2011 at France , Paris.
- (263). **Delivered a lecture entitled**, “*Natural Cataclysms and Global Problems of Modern Civilization*” at the World Forum – the International Congress and Exhibition in Istanbul September 19, 2011 at Istanbul, Turkey.
- (264). **Participated as the** keynote speaker and presented a lecture entitled “*Some Adventures in Natural Product Chemistry and Higher Education*” on symposium on Bioactive Natural Products – Applications in Health and Agriculture in Colombo on October 03, 2011 at Colombo, Sri Lanka
- (265). Presented an inaugural lecture entitled, “*Building Bridges with the West through Knowledge Economy*” at the session entitled, “*Contributions in the Promotion of Higher Education, Science and Technology in OIC Countries, and in Natural Products Chemistry*” on 18th IAS Conference at Doha on October 22, 2011 at Doha, Qatar.

- (266). Presented an inaugural lecture entitled, “*Contributions in the Promotion of Higher Education, Science and Technology in OIC Countries, and in Natural Products Chemistry*” at The 75th Convocation Ceremony of the University of Technology MARA on October 19, 2011.
- (267). **Presented a lecture entitled, “Recent developments in Higher Education in Pakistan: Challenges and opportunities”** at Hamdard University, Karachi on January 28, 2011.
- (268). **Presented a lecture entitled, “Higher Education and its Socio-Economic Impact”** on Annual Day-2011 at DHA College for Boys on March 15, 2011 at Karachi.
- (269). Attended the 1st Meeting of the High Level Panel Group on “Science, Technology and Innovation for Development “ at UNESCO Headquarters during 15-17 September, 2011 in Paris and he presented a lecture at the Public Session of the Panel with Permanent Delegations of UNESCO entitled “*Models for capacity building in science, technology and innovation*” on September 16, 2011 at France, Paris.
- (270). **Delivered a lecture entitled, “Natural Cataclysms and Global Problems of Modern Civilization”** at the World Forum – the International Congress and Exhibition in Istanbul on September 19, 2011 at Istanbul, Turkey.
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- (273). **Presented a lecture entitled, “Recent developments in Higher Education in Pakistan: Challenges and opportunities”** at Hamdard University, Karachi on January 28, 2011.
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- (276). Participated as the Chief Guest at “Neurology Conference, related to epilepsy” at Aga Khan University on December 24, 2010 at Karachi.
- (277). Participated as the keynote speaker entitled “Managing National Talent & Building Nations at the 2ND Talent Management Forum at the theme entitled, : Leveraging Your Talent to Drive Business Outcomes on January 23, 2010 at Karachi
- (278). Participated as the chief guest at the Seminar at the National Defence University on 15 February, 2010 at Islamabad
- (279). Participated as the guest speaker and presented a lecture entitled, “*Higher Education Science and Technology --- Imperatives for Socio-Economic Development*” at the seminar at Rotary Club of Karachi: on 08 March, 2010 at Karachi
- (280). Participated in the 3rd World Congress of Muslim Philanthropists, theme entitled “Building a Better World “New Horizons Sound Strategies” during March 21-22 and deliver a lecture at the Plenary session entitled, “ Muslim Knowledge *Ecosystem*” on March 21 and a lecture at the roundtable session entitled, “Capturing the Muslim World into Global Competitiveness in

Science, Technology and Innovation:What it take? Developing an action Agenda” on March 22, 2010 at Doha Qatar.

- (281). Participated as the Chief guest at the Post graduate medical education annual conference: entitled “ Career Counseling: what’s after the residency” on April 09, 2010 at Karachi.
- (282). Participated as the keynote speaker at the session on education entitled, “*The Power of quality Education.*” at the last Annual Conference of Rotary International District 3270 comprising Afghanistan & Pakistan on April 03, 2010 at Karachi.
- (283). Participated as the Chief Guest at the workshop on “Nutraceutical Foods of Industrial Importance on April 13, 2010 at Karachi.
- (284). Participated in the 6th World Islamic Economic Forum (WIEF) during May 16-21, 2010 and presented a lecture entitled, “*Innovation : The Path to Socio-Economic Development*”at the plenary session on May 19, 2010 at Kuala Lumpur, Malaysia.
- (285). Participated as the chief guest at the workshop on “The Concept of Responsible Science Safety, Security and Ethics” held at COMSTECH during June 9-10 , 2010 at Islamabad.
- (286). Presented a lecture entitled, “*Higher Education, Science and Technology: Challenges and Opportunities in the Islamic World*”at the seminar held at Dr. Zia uddin hospital University on June 24, 2010 at Karachi.
- (287). Participated as the chief Guest at the symposium entitled “ Women in World Neuroscience” on July 01, 2010 at Karachi.
- (288). Participated in the International Conference on Strategies. Scientific Research in the Universities of the Muslim World: Reality and Prospects dur ing 6 - 8 July at Kuala Lumpur Malaysia 2010.
- (289). Participated as the Chief Guest at the inaugural session of seminar on “Investing Opportunities in Pakistan” on July 17, 2010 at Karachi.
- (290). Participated as the Chief Guest at the National Conference on Information Assurance(NCIA-2010)at Military College of Signals Hamayun Road on Augst 10, 2010 at Rawalpindi.
- (291). Presented a lecture entitled, “*Education System of Pakistan*” at National Defence University on August 20, 2010 at Islamabad.
- (292). **Prof. Dr. Atta-ur-Rahman participated as the Chief Guest at the inaugural ceremony of the 5th International Conference on Statistical Sciences: Mathematics, Statistics and Applications, held on Jan 23, 2009 at Lahore.**
- (293). Attended the meeting organised by the Science Policy Centre at the Royal Society and the International Council for the Life Sciencesat the occasion of organizing 350 years of Royal Society Prof. Dr. Atta-ur-Rahman was invited as the discussant on this osscasion presenting a discussion entitled “*Global security risks – the context for biological risks*” on a session entitled, “New Approaches To Biological Risk Assessment”, at the Royal Society on February 19, 2009 at London, UK.
- (294). Participated as a chief guest at the International Conference of Pakistan Zoology Congress at University of Sindh, Jamshoro, on February 24, 2009 at Jamshoro.
- (295). Participated as the Chief Guest: 8th Shaukat Khanum Memorial Cancer Symposium on February 26, 2009 at Lahore.
- (296). Participated in the Second Islamic Conference of Ministers of Health in Tehran, on March 3-4, 2009at Tehran, Iran.
- (297). Participated in the Islamic Conference of the Ministers responsible for Water as a sideline event of 5th World Water Forum Istanbul on March 20, 2009 at Istanbul, Turkey.

- (298). Participated in the Biosafety and Biosecurity International Conference 2009 on 2-3 April 2009 at Casablanca, Morocco.
- (299). Participated and delivered an inaugural lecture as the first activity of the Science Forum at Forman Christian College on April 20, 2009 at Lahore.
- (300). Participated as the Chief Guest at the National Seminar on Agriculture Biotechnology, organized by Center for Molecular Genetics, University of Karachi on April 28, 2009 at Karachi.
- (301). Participated as the Chief guest at the closing ceremony of “The All Pakistan Programming, Engineering and Business Competition” at the FAST-NUCES on May 02, 2009 at Karachi.
- (302). Participated as the Chief Guest at the Inauguration Ceremony of 1ST International Conference on “Energy, Environment & Sustainable Development for Growing Economics (EESD2009)” at Mehran Engineering University, MUET Auditorium on May 04, 2009 at Jamshoro
- (303). Participated and delivered an inaugural address at the one day workshop entitled, “*Natural Product-based drugs and other Botanicals – Present Status and Future Prospects*” at ICCBS Auditorium on May 16, 2012 at Karachi
- (304). Participated as the keynote speaker entitled, “the Science and Technology policies relevant to new Emerging Technologies in the OIC Member States” at the S & T Conference and Exhibition parallel to 36th Council of Foreign Ministers Conference on, May 24, 2009 at Damascus, Syria.
- (305). Participated in the EAHEP roundtable conference on the Bologna process and Europe-Asia dialogue during 1-3 July, 2009 at Belgium.
- (306). Participated as the Guest of Honour at the International Conference on Plants and Environmental Pollution (ICPEP-2009) during July 06-09 2009 at Turkey.
- (307). Participated as the chief guest at the 4 days workshop entitled, “Biofertilizers Importance and Development using Indigenous Resources” at the Council room of Dean of Sciences, University of Karachi on August 20, 2009.
- (308). Invitation from United Nations - High Level meeting on Biotechnology in New York and meetings in State Department, Washington during 9-10 September, 2009.
- (309). Participated as the Chief Guest at the inauguration ceremony of Workshop entitled, “*Laboratory Bio-Safety and Containment Facilities*” at COMSTECH on Oct 05, 2009 at Islamabad
- (310). Attended the 20th General Meeting of TWAS, as Vice President, in Durban, during October 18-23, 2009 at Durban, South Africa.
- (311). Participated in the workshop entitled, “Enhancing scientific capacity for development: examining the past and preparing for the future” during 07-10 Nov 2009 at Bern, Switzerland.
- (312). Participated in the High level Conference on “*Building knowledge, economics for job creation, increased competitiveness and balanced development*” (Invitation from Tunis Ministry of Foreign affair ISESCO) during 1-3 December 2009 at Tunis, Tunisia.
- (313). Participated in 17th IAS Conference and presented a keynote lecture entitled, “Building a Knowledge Society in the Islamic World: Challenges and opportunities” on December 15, 2009, Malaysia.
- (314). Participated as the chief guest at the three – day “Patch Clamp Technology” Workshop at ICCBS Institutions at H.E.J on December 21, 2009 at Karachi.
- (315). Participated and presented a National Presentation at IAP Conference on Biochemistry at Royal Society and General Assembly meeting during January 12-15, 2010 at London, UK.

- (316). Attended the meeting organised by the Science Policy Centre at the Royal Society and the International Council for the Life Sciences at the occasion of organizing 350 years of Royal Society. Prof. Dr. Atta-ur-Rahman was invited as the discussant on this occasion presenting a discussion entitled "*Global security risks – the context for biological risks*" on a session entitled, "New Approaches To Biological Risk Assessment", at the Royal Society on February 19, 2009 at London, UK.
- (317). Participated as a chief guest at the International Conference of Pakistan Zoology Congress at University of Sindh, Jamshoro, on February 24, 2009 at Jamshoro.
- (318). Participated as the Chief Guest: 8th Shaukat Khanum Memorial Cancer Symposium on February 26, 2009 at Lahore.
- (319). Participated in the Second Islamic Conference of Ministers of Health in Tehran, on March 3-4, 2009 at Teran, Iran.
- (320). Participated in the Islamic Conference of the Ministers responsible for Water as a sideline event of 5th World Water Forum Istanbul on March 20, 2009 at Istanbul, Turkey.
- (321). Participated in the Biosafety and Biosecurity International Conference 2009 on 2-3 April 2009 at Casablanca, Morocco.
- (322). Participated and delivered an inaugural lecture as the first activity of the Science Forum at Forman Christian College on April 20, 2009 at Lahore.
- (323). Participated as the Chief Guest at the National Seminar on Agriculture Biotechnology, organized by Center for Molecular Genetics, University of Karachi on April 28, 2009 at Karachi.
- (324). Participated as the keynote speaker and delivered a lecture entitled, "*Transitioning to a Knowledge Economy*" at 11th Young Leaders' Conference on July 04, 2012 at Karachi.
- (325). Lecture entitled "*Higher Education for Socio Economic Development*" was delivered in a seminar at Forman Christian College on July 23, 2012 at Lahore.
- (326). Lecture entitled, "Science Technology and Innovation, Imperatives for Socio-economic Development" was delivered at Delhi University on September 04, 2012 at Delhi, India.
- (327). Plenary lecture entitled, "*Science, Technology and Innovation – Imperatives for Socio-Economic Development*" was delivered at Summit of Science Academies of South Asia on September 08, 2012 at New Delhi, India.
- (328). Participated as the Chief Guest and delivered a lecture entitled "Fascinating World of Science" at the International Islamic University on December 03, 2012 at Islamabad.
- (329). Lecture entitled "Some Adventures in Natural Product Chemistry and Higher Education" was delivered at LIKAT University, on December 18, 2012 at Rostoc, Germany.
- (330). Participated as the key note speaker and delivered a lecture entitled, "Higher Education, Science and Technology: Essential for Development of Pakistan" at the 5th Convocation of the "Dadabhoj Institute of Higher Education" on December 25, 2012 at Karachi.
- (331). Participated as the Chief Guest and delivered a lecture entitled, "Fascinating Advances in space Exploration" at the closing ceremony of the BURAQ Certificate Distribution entitled, "Changing Perceptions through Visions of Space" on December 30, 2012 at Islamabad.