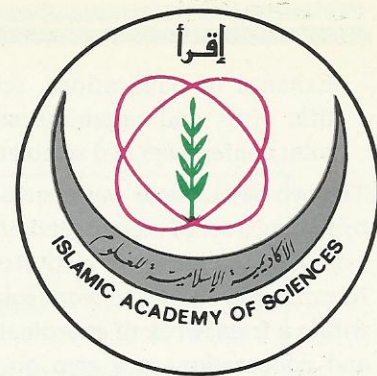


# NEWSLETTER

## ISLAMIC ACADEMY OF SCIENCES

SEPTEMBER 1989

ISSUE. 10



### HRH CROWN PRINCE AL-HASSAN IBN TALAL PATRONIZED IAS-AL AL-BAIT FOUNDATION JOINT SEMINAR

Under the Patronage of HRH Prince Al-Hassan, Crown Prince of the Hashemite Kingdom of Jordan, the Seminar on "Coordination and Cooperation Among Institutes of Research and Studies and Their Applications Within the Framework of Islamic Thought" jointly organized and sponsored by IAS and the Royal Academy for Islamic Civilization Research (Al Al-Bait Foundation) was held in Amman during the period 20-21 Thu-Al-Quidah 1409 H, corresponding to 24-25th June 1988.

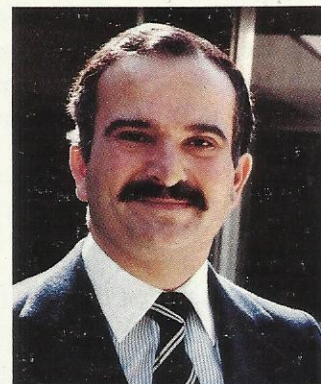
In His Highness's inaugural address read by H.E. Prof. Dr. N. Al Asad, Minister of Higher Education and President of the Royal Academy for Islamic Civilization Research (Al Al-Bait Foundation), HRH Crown Prince Al Hassan Ibn Talal emphasized the urgent need for a dialogue between Islamic institutes as a pre-requisite for accomplishing coordination and cooperation and reaching balance between theoretical and humanities' sciences on one hand and applied sciences on the other. HRH called upon participants to establish a well defined plan for common projects

and activities with specific mechanisms for implementation to achieve objectives within the framework of a joint Islamic effort to help the Muslim Ummah gain its glory.

In his opening statement, H.E. Prof. Dr. M. Kazi, President of IAS, expressed gratitude for HRH Crown Prince Al-Hassan for patronizing the Seminar, the idea of which was initiated by HRH the Crown Prince. Prof. Kazi said that Islam is the religion of knowledge and research and has all the incentives for believers to study, explore and utilize research results for the benefit of the Ummah and humanity at large.

Thirty eight persons representing fourteen organizations and institutes from within and outside the Muslim World took part in this activity which was the first of its kind. Fifteen papers, twelve of which were institution's papers were presented and discussed. The papers and discussions were based on a rational paper previously prepared by the Organizing Committee in which the objectives of the Seminar were outlined.

The discussions were focused on ways and means of enhancing coordination and cooperation among Islamic institutes and opening dialogue channels on the crucial issues facing the Ummah. In their



*HRH Crown Prince Al-Hassan Ibn Talal,  
Patron of IAS*

final report the participants emphasized the following domains as priority areas for cooperation and coordination:

- Development of S&T capability of the Ummah.
- Research on Islamic economics with emphasis on issues of direct interest for the Muslim masses.
- Issuing of a high quality Journal in several languages as a forum for studies and research on Islam and the Muslim World.
- Executing research projects which need the efforts of various groups in different Islamic countries such as encyclopedias, bibliographies ...etc.
- Translation of literature on Islamic legacy into several languages to enhance spreading Islamic thought through out the world.



- Exchange of publications, scientific visits and organization of joint conferences and seminars.

The two day seminar was concluded by issuing a set of recommendations calling upon all Islamic institutes of research and studies to work jointly within a framework of coordination and cooperation as a step on the course of Islamic unity. A working-group committee was formed to follow-up the outcome of the seminar and to prepare a field study on the Islamic institutes, their potential and specific projects and programmes that can be jointly undertaken.

The working-group comprised Al Al-Bait Foundation (as Secretariate), Islamic Academy of Sciences, International Institute for Islamic Thought (Washington), King Faisal Centre for Islamic Research and Studies (Riyadh), Abdul-Hamid Shouman Foundation (Amman) and Research Centre for Islamic History, Art and Culture (Istanbul).

IAS was well represented in the Seminar. Both Dr. A. Kettani and Dr. M. Qurashi, IAS Fellows presented papers and Dr. M. K. Mahmoud and Dr. F. Daghestani participated in the seminar and headed working sessions. Dr. Daghestani was chosen Rapporteur of the Seminar.

## IAS COUNCIL HELD ITS 6TH MEETING

The 6th meeting of IAS Council was held at the Academy's headquarters in Amman on the 22nd, June 1989. Six Council members participated in this meeting.

The Council discussed and approved several issues on its agenda. Acting Executive Director General (AEDG) presented a report on the



*IAS Council Members in Their Sixth Meeting*

activities of IAS headquarters and future plans.

The Council deliberated at length on the financial status of IAS and ways and means of Securing funds for IAS programme. The Council decided to initiate direct contacts with the private sector and potential contributors through out the Muslim World aiming at exposing the Academy, its objectives and programme to encourage these parties to financially support IAS.

One other major issue on the agenda of the Council was IAS Scientific Journal. Appreciating the progress of the Journal, the Council affirmed its stand that the Journal should continue as a distinguished publication and a forum for muslim scientists.

The Council also reviewed the arrangements for IAS 1989 conference to be held in Kuwait. Election of new fellows for the Academy for the year 1989 was discussed in light of previous resolutions of IAS General Assembly. The Council approved a

procedure for promoting fellowship of eminent muslim scientists from Islamic Countries which are not represented in IAS.

## Dr. BILBEISI APPOINTED EXECUTIVE DIRECTOR GENERAL OF IAS

In its 6th meeting, IAS Council considered the filling of the vacant position of the Executive Director General (EDG) of IAS.

The candidature of Dr. Anwar Bilbeisi was presented to the Council who decided to offer him the position of EDG on contract basis. The Council authorized Dr. Daghestani Treasurer of IAS to prepare and sign the employment contract of Dr. Bilbeisi on behalf of IAS Council.

Dr. Bilbeisi who assumed his new assignment as of August 1st, 1989, is a Urologist who obtained his M.B at Cairo University in 1957 and a Diploma in Urology at London University in 1962.





*Dr. Anwar Bilbeisi, Executive Director General IAS.*

Prior to Joining IAS. Dr. Bilbeisi held many high positions, the last of which was the position of Secretary General, Ministry of Health of Jordan. He was also involved in several activities such as heading rescue teams to disaster areas in Sudan, Algiers and North Yemen. Dr. Bilbeisi is also a member of several governmental and private committees and boards as well as a member in several professional bodies. He was awarded two Royal Medals, Alkawab in 1988 and Alnahdah in 1989.

The editor takes this opportunity to congratulate Dr. Bilbeisi on his new assignment and wish him every success.

## **ELECTION OF NEW FELLOWS**

In accordance with the By-laws of the Islamic Academy of Sciences, election ballots for IAS fellowship for the year 1989 have been forwarded to all IAS fellows to exercise their right of election. The voted ballots should reach IAS Secretariate, no later than the first of October 1989.

Twenty three IAS Fellows exercised their right of nomination and (20) muslim academician and scholar were nominated for IAS fellowship for the current year of whom (10) persons shall be elected by the existing IAS Fellows.

## **EDITOR'S LETTER**

*The Muslim Ummah is facing numerous challenges in many areas. Combined with the prevailing conditions in the Muslim World, this situation necessitates solidarity and cooperation at all levels. Realizing this fact, Islamic learned institutes carry a historical responsibility in taking initiatives to lay grounds for a joint Islamic action that would meet the expectations of the Ummah.*

*The organization of the seminar on "Coordination and Cooperation Among Institutes of Research and Studies and their Application within the Framework of Islamic Thought" by IAS and Al Al-Bait Foundation, represents a committed step in this direction. The main objective of the seminar was to get closer Islamic institutes and muslim scientists and scholars to know of each other's areas of interest, potential and programmes. Part of our problem in the Muslim World is that we know very little about each other and it is prime time that we open wide the door for a fruitful dialogue on mechanisms of coordination and cooperation.*

*One other important objective of the seminar was to bring together muslim scientists and scholars of the two major disciplines "nature and religion" to deliberate on ways and means of helping the muslim masses to deal with contemporary issues the list of which is getting longer day after day.*

*The recommendations of the participants-reflect the genuine intention of all parties whether institutes or individuals to coordinate and cooperate as it reflects the deep interest of all participants in initiating a joint Islamic action that cover a wide range of activities with the aim of promoting the capability of the Ummah in various fields specially science and technology as well as giving the concept of "Unity of the Ummah" it real dimensions.*



## **IAS COUNCIL AND G.A. MEET IN DECEMBER**

IAS Council has decided in its 6th meeting to hold the next IAS Council and General Assembly meetings in Kuwait following IAS 1989 Conference (2-5 December 1989).

Several important issues will be on the agenda of the G.A. including the approval of election results and induction of elected fellows. Promotion of IAS financial resources and implementing its programme will take major part of the deliberations. The G.A. will have also to decide on the theme, venue and date of IAS next conference.

## **IAS AND ISESCO SIGN COOPERATION AGREEMENT**

In conformity with their objectives and programmes, the Islamic Academy of Sciences (IAS) and the Islamic Educational, Scientific and Cultural Organization (ISESCO), have signed a cooperation agreement aiming at developing harmonious and continuous collaboration between them.

The two organizations have agreed to grant each other access and facilities to all data, documents and studies and to provide each other with every assistance in the form of staff activities or services. The two parties according to the agreement, may agree upon complementary arrangements to improve or develop particular aspects of their cooperation.

The two parties have also agreed to invite each other's representatives to sessions of general assemblies, conferences and symposia.

The agreement was signed by Prof. M. Kazi President of IAS and Prof. A. Boutaleb, Director General of ISESCO.

## **ORGANIZING COMMITTEE FOR IAS 1989 CONFERENCE MEETS IN SEPTEMBER**

The Organizing Committee for IAS 1989 Conference on "New Technologies and Development of the Muslim World" jointly organized by IAS and Kuwait Foundation for the Advancement of Science (KFAS) will meet at IAS headquarters in September 1989.

The Committee which comprises representatives of IAS and KFAS shall review the progress in the arrangements for the conference and finalize organizational matters.

The Conference which shall be held during the period 2-5th December 1989, will include the presentation and discussion of fourteen papers in specific areas of new technologies as well as commentary papers on the potential of the Muslim World in these areas.

In addition to the 49 IAS Fellows, about 100 Scientist, academician and technologist are expected to participate in the Conference.

IAS is expected to issue a declaration addressing decision makers, planners and the scientific community and calling for the adoption and adaptation of new technologies relevant to the development of the Muslim World and taking immediate measures to promote the Ummah's capability in the areas of new technologies.

## **HIGHLIGHTS OF RESEARCH ACTIVITIES AND POTENTIAL OF ISLAMIC INSTITUTES:**

### **H.E.J RESEARCH INSTITUTE OF CHEMISTRY, UNIVERSITY OF KARACHI**

#### **Research**

A number of nationally and internationally funded research projects are being conducted in the Institute. During the year 1988-89, the institute has had 143 research papers published (or accepted for publication) in leading international journals, which is an indication of the growing momentum of the research activity in the Institute. The researches include the development of a marine alkaloid active against the AIDS virus (Prof. Att-ur-Rahman's research group) for which a contract for development has been concluded with Hoffman La Roche, New Jersey, USA, a new analgesic (Prof. Atta-ur-Rahman's research group) for which a contract has been concluded with N/S. Reckitt & Coleman, U.K., and a new immunomodulator (Prof. Att-ur-Rahman, Dr. N.S. Shekhani & DR. Mrs. Shahana Kami) for which a contract is being negotiated with a number of companies. A proteolytic enzyme has been isolated as a part of contract research with K/S. Ghani Sons (Pvt) Ltd. involving neutral proteinases for leather finishing (Prof. Z.H. Zaidi's group).

Studies on various plant materials, Azadirachta Indica (Neem), Melia Azaderach (Bakayan), Peganum Harmala, Nerium Oleander and Plumerial Obtusa, have resulted in the isolation of a series of new con-



stituents. Apart from their structural studies, they have been subjected for their pharmacological screening and some of the new constituents have been found to possess significant biological activity such as anti-cancer, CNS depressant and antibacterial. Further studies in this direction are in progress. On the other hand, various factors and uniform constituents of Neem have been tested for their pesticidal properties. Some of them have been found to possess insect growth regulating properties against house-flies mosquitoes whereas some other fractions were found to be growth regulators against stored-grain insects (Prof. Salimuzzaman Siddiqi and Dr. Bina Shaheen Siddiqi's group).

#### Major Publications

The Institute's staff member have written or edited eleven books which have been published (or accepted for publication) by reputable international presses. These are as follows:

1. Studies in Natural Products Chemistry, "Steroselective Synthesis", Vol. 1, Part-A, Ed. Atta-ur-Rahman, Elsevier Science Publishers, Amsterdam (1988).
2. "Studies in Natural Products Chemistry "Steroselective Synthesis", Vol. 1, Part-B, Ed. Atta-ur-Rahman, Elsevier Science Publishers, Amsterdam (1988).
3. "Studies in Natural Products Chemistry, "Structure Elucidation". Vol. II, Part-A, Ed. Atta-ur-Rahman, Elsevier Science Publishers, Amsterdam (in press).
4. "Natural Products Chemistry", III, Ed. Atta-ur-

Rahman and P.W.Le Quesne, Springer-Verlag Heidelberg, (1988).

5. "Nuclear Magnetic Resonance Spectroscopy", Att-ur-Rahman, Spring-Verlag New York (1986). (Japanese translation. Prof, Motoo Tori and Prof. Hiroshi Hirota, published 1988).
6. "One and Two Dimensional Nuclear Magnetic Resonance Spectroscopy". Atta-ur-Rahman, Elsevier Science Publishers, Amsterdam (in press).
7. "Pakistan Encyclopaedia Planta Medica, Vol. III, U.G.C. Press, Islamabad (in press).
8. "Studies in Natural Products Chemistry, "Steroselective Synthesis", Vol. 1, part C, Att-ur-Rahman, Elsevier Science Publishers, Amsterdam (1988), accepted for Publication.
9. "Recent Advances in Natural Products Chemistry", 1987, Atta-ur-Rahman, Shamin Printing Press, Karachi (in press).
10. "Pakistan Encyclopaedia Planta Medica", Vol.IV, Atta-ur-Rahman and V.U. Ahmad, U.G.C. Press, Islamabad (in press).
11. "Protein Structure Function Relationship". Elsevier Science Publishers Incorporated, Amsterdam, Oxford, New York, (Edited by Prof. Zafar H. Zaidi 1988.)

#### International Recognition

The Institute has been nominated

as the WHO Center for Pesticide Analysis for Eastern Mediterranean Region. This is a matter of considerable pride for the Institute. The Institute will be entitled to use the WHO emblem on its letterheads in future correspondence. Under the programme the Institute's staff will be trained abroad and equipment will be supplied by WHO for pesticide testing/analysis.

#### DR. HALAIQAH PROMOTED

Dr. Moh'd Salamah Halaiqah former Head of Technical Relations Dept.of IAS has been promoted to Assistant Executive Director General by IAS Council in its 6th meeting. The decision followed the appointment of Dr. Bilbeisi Executive Director General (EDG) of IAS. Dr. Halaiqah had also held the position of Acting Exec. Director General during the period which followed the resignation of former (EDG) Dr. El-Mulki.

#### NEWS OF IAS FELLOWS

- *H.F. Prof. Dr. Abdul Salam Majali* IAS F.F. former President of University of Jordan has been recently appointed advisor to His Majesty King Hussein by a Royal Decree.
- *Prof. Dr. Samaun Samadikun*, IAS F.F was appointed by the President of Indonesia as Chairman of the Indonesian Council for Sciences.

Dr. Samadikun took oath of office on April 20th, 1989. Prior to this assignment Dr. Samadikun was Director of Inter-University Centre for Microelectronics and



Professor in electronics, Bandung Institute of Technology.

- *Prof. Dr. Wiranto Arismundar*, IAS F.F. ex-Vice Chairman of the Indonesian National Institute for Aeronautics and Space took a Presidential appointment as the Rector of Bandung Institute of Technology (Institute Teknologi Bandung) on December 12th 1988.
- *Prof. Dr. Misbahuddin Shami*, IAS F.F. has been elected as President of Pakistan Academy of Sciences. His Predecessor was IAS F.F. Raziuddin Siddiqi.
- *Prof. Dr. Salimuzzaman Siddiqi*, IAS F. was elected as Foreign Fellow of the Indian National Science Academy (1989).
- *Prof. Dr. Atta-ur-Rahman* IAS F. has been awarded the Open Medal of the Pakistan Academy of Sciences and the first Prize for Chemistry by the Ministry of Education in Pakistan.

The editor of IAS News Letter takes this opportunity to congratulate these IAS Fellows on their new assignments and accomplishments wishing them every success.

## CONFERENCES, SEMINARS AND SYM- POSIA IN THE MUSLIM WORLD

IAS has received information regarding the following conferences, seminars and symposia

- The Second International Congress of the Middle East Society for Organ Transplantation (MESOT), Kuwait, 11-15 March 1990.

**Sponsorer:** Kuwait Institute for Medical Specialization.

- The Second Kuwait International Symposium on Ophthalmology, Kuwait 4-8 February 1990.

**Sponsorers:** Kuwait Ministry of Public Health, Kuwait Institute for Medical Specialization (KIMS). Kuwait Foundation for the Advancement of Sciences (KFAS).

- Catalysts in Petroleum Refining Conference, Kuwait, 4-8 March 1990.

**Sponsorer:** Kuwait Institute for Scientific Research. Kuwait Foundation for the Advancement of Sciences, Gulf Cooperation Council, Kuwait National Petroleum Company, Kuwait University

- 10th Civil Engineering Congress and Exhibition, Istanbul, October 1989.

**Sponsorer:** Union of Chambers of Turkish Engineers and Architects.

- Industrial Pollution, Tunis, 15-17 December 1989.

**Sponsorer:** Tunisian Chemical Society, Union of Arab Chemists.

- 9th Arab Chemical Conference, Kuwait, December 1990,

**Sponsorer:** Kuwait Chemical Society, Union of Arab Chemists

- Health Problems in Connection with Radiation from Radioactive Matter in Fertilizers, Soils and Rocks (English), Edit. Jul Lag, Proceedings of an International Symposium; Published by Norwegian Academy of Science and Letters, 1988.

- The Acquisition of Imported Technology for Industrial Development; Problems of Strategy and Management in the Arab Region (English), Published by United Nations Economic and Social Commission for Western Asia (ESCWA), 1985.

- Ongoing Research in Agriculture in OIC Countries (English), Directory Series; Published by Statistical, Economic and Social Research and Training Centre for Islamic Countries (SESRTCIC), Ankara, 1988.

- Libraries and Documentation Centres in the Islamic Countries (English), Islamic Information and Data, Communication Series 1; Published by the Islamic Educational, Scientific and Cultural Organization (ISESCO), Morocco, 1988.

- A Review of Natural History Research in the Muslim World (English), M.A. Mirza, Published by Pakistan National Science Council, Islamabad, 1983.

- Contributions of Muslim Scientists During the 13th and 14th Centuries Hijri in the Indo-Pakistan Sub-Continent (English), M. Ataur-Rahim; Published by National Science Council, Islamabad 1983.

- Nuclear Energy and the Chernobyl Accident (Arabic), I. Badran and H. Obeid; Published by Jordan Royal Scientific Society, Amman, 1988.

- Beruni and His Experiment at Nandana (English), N.A. Baloch; Published by the International Conference on Science in Islamic Polity, Islamabad, 1983.

## IAS Library

IAS library has recently acquired the following publications:

- Recent Advances in Natural Product Chemistry (English); Edit. Atta-ur-Rahman, Proceedings of an International Workshop; Published by Elsevier Science Publishers, B.V. Amsterdam, 1987.



## IAS NEWSLETTER

The Newsletter is published by the Islamic Academy of Sciences.

**Executive Director General of IAS**

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**Dr. Anwar M. Bilbeisi**

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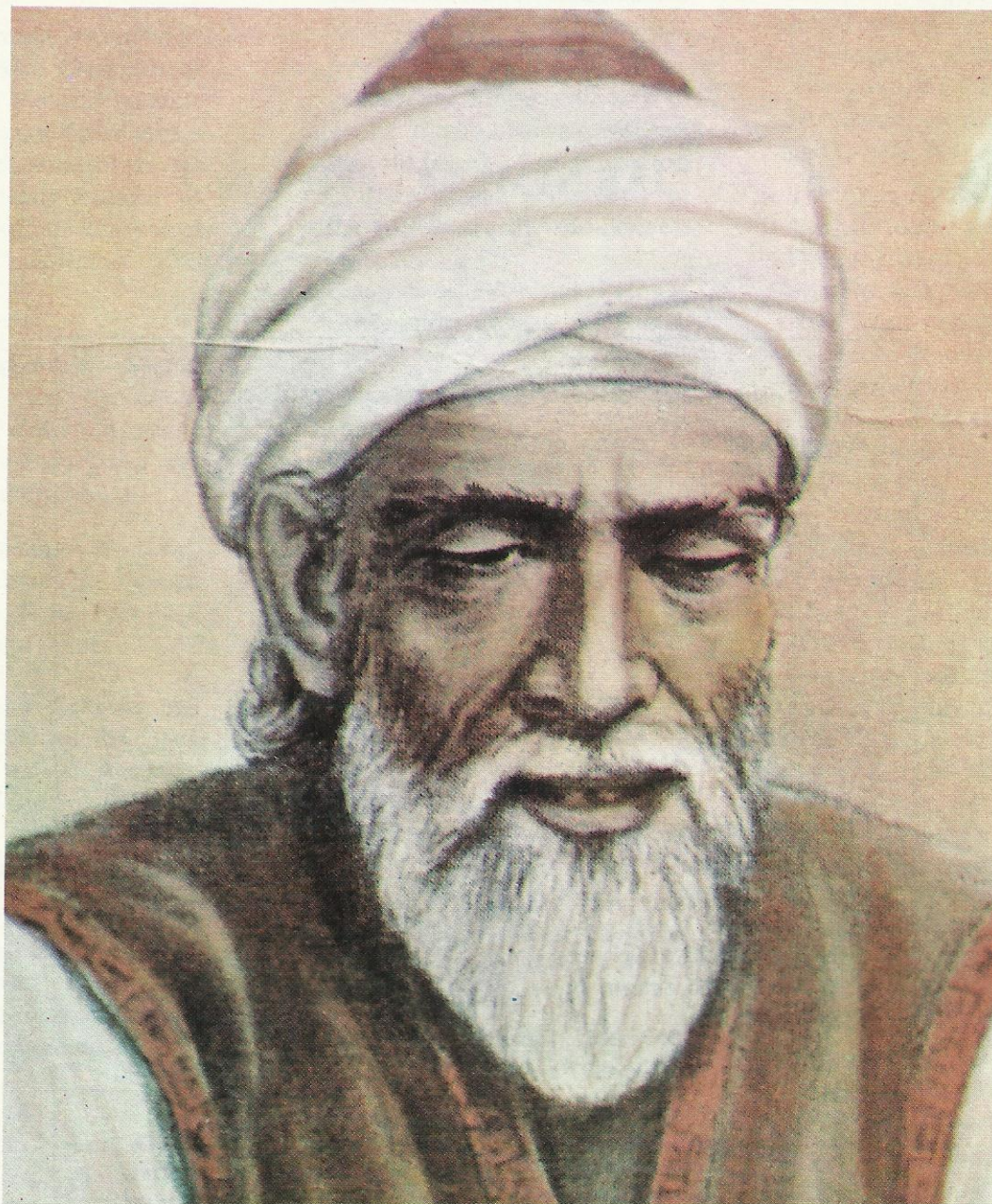
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## MUSLIM SCHOLARS



**ABUL WAFI MUHAMMAD AL-BUZZJANI**

**(940-997 A.D)**

**Abul Wafa Muhammad Ibn Muhammad Ibn Yahya Ibn Ismail al-Buzjani was born in Buzjan. He flourished as a great mathematician and astronomer. His main contribution lies in several branches of mathematics especially geometry and trigonometry. He wrote several books including *Kitab Ilm al-Hisab* and *Kitab al-Handasa*.**