Editorial

5th International pure Mathematics Conference was an outcome of highly concerted and committed efforts on the part of organizing committee of Pakistan Mathematical Society. It was a unique academic activity in which the Mathematicians researchers participated not only from Pakistan but also from abroad. The participants were fully benefited and enlightened with the latest research work in diverse disciplines of mathematics being pursued in different parts of world.

It built an atmosphere conducive to, cooperative learning and provided the researcher a hand-on opportunity to pose questions of varying nature. It will eventually bring about a qualitative change in research activities and open new vistas in the development of Mathematics. The gravity of interest exhibited by the participants was a clear indicator of inspiration and motivation fostered by academic proceedings. This impact will definitely contribute in achieving the level of excellence by consistent and candid endeavors on the part of Pakistan Mathematical Society.

It is not out of place to express on behalf of PMS, my profound gratitude to all the venerable participants of gracing the function. My thanks are due to all those who rendered logistic support in holding the conference, specially the vice chancellor Air University Islamabad, President, The University of Lahore and vice chancellor Allama Iqbal Open University Islamabad. Special thanks to HEC, and PTCL authorities for the financial support, without which it would not have been possible to hold the conference. I say goodbye till the next issue with these verses.

We are told: your dawn is already here;
Your tired feet need journey no more;…..
But there is yet no relief in the darkness of the night;
No liberation yet of our soul and our mind;
So let us keep marching, my tiring friends;
We have yet to find our elusive dawn.
                    Faiz Ahmad Faiz

Dr. Sidke Discussed New Openings in Group Theory at QAU

Dr. Prof S.N. Sidke a profile Mathematician, haled from Palestine and working in the Department of Mathematics University of Brazil. He delivered a lecture at QAU on August 24, 2004. His focus of discussion was 'New vistas in the development of Group theory'. He gave very comprehensive explanation of the subject which generated interest

amongst the audience. It was attended by the scholars and researcher of Mathematics department and other faculty members of Qauid-e- Azam University Islamabad.

Summer Workshop Held at LUMS for PhD Scholars (August 16-20, 2004)

 Center for Advanced Studies in Mathematics (CASM) organized a Summer Workshop in Mathematics (Aug 16-20, 2004) for PhD students registered in various universities in Pakistan. Many distinguished mathematicians from different universities of Pakistan and abroad delivered their highly educational knowledgeable lectures. The event was a great success and around 65 PhD scholars participated in it. The funding for Ph.D. scholars from public sector universities is not adequate and most of them bear the expenses themselves. Which shows commitment and interest on their behalf, if they are provided opportunities for learning then the sufficient resources may be made available to maintain consistency in the intellectual/ creative activities. As course work at most of our universities is not enough, so need for more activities of this type is felt to supplement the substance required for the PhD program. In continuation to these activities Center for Advanced Studies in Mathematics (CASM) plans to pursue these activities in future.

WINTER CONFERENCE IN MATHEMATICS December 3-4, 2004

First Announcement

CASM is organizing this free to attend conference, with the view to broader the research interests of young mathematicians by providing an opportunity to discuss recent developments and to assess future directions. The organizing committee invite all those interested, to pre-register by October 1, 2004 by sending an e-mail to: kashifi@lums.edu.pk

Organizing Committee: Ismat Beg (convener), Muhammad Hanif, Masood Shah.

Venue: Lahore University of Management Sciences (LUMS), Lahore.

About the CASM: The Center for Advanced Studies in Mathematics (*CASM*) aims to:

- Provide a best resource center and an excellent learning place for Mathematics.

- Increase interaction with Industry and Trade.
- Promote interaction between mathematicians and the experts of other disciplines, such as electrical and computer engineering, economic, natural and social sciences.

5th Pure Mathematics Conference at a Glance

Pakistan mathematical society has been constantly perusing its objectives in the promotion of mathematics and consequently succeeded in holding four international pure mathematics conferences in Pakistan. In continuation of these activities the society has been able to convene 5th international pure mathematics conference 2004 in Islamabad from 20-22 August 2004 with the courtesy of Higher Education Commission and Pakistan Telecommunication Corporation Limited. In three days conference the participants form different parts of Pakistan started arriving on August 19th. They were accommodated in the motels lying in the vicinity of conference venue. The conference was unique of the type because many outstanding Mathematicians from Brazil, China, Hong Kong, India, United States and Saudi Arabia presented their papers based on their research work.

The conference was inaugurated by Dr. Ishfaq Ahmad special adviser to prime minister of Pakistan. He addressed the participants in a scholarly manner and appreciated efforts being carried out by society for the promotion of the subject. He emphasized that we must believe in quality rather than quantity.

The president of the society highlighted the aims and objectives of the society. He warmly welcomed the chief guest and expressed special thanks for gracing the function. After the inaugural ceremony first business session started chaired by Professor Dr. B.A. Saleemi Chairman of the conference and Dean of faculty of Science Air University Islamabad. Professor Nanqing Ding Department of mathematics Nanjing University China presented his paper on FP-Projective Dimensions for Modules and Rings. In his paper the relation between the FP- Projective Dimension and other homological dimensions were discussed. The next speaker was Dr. Liaqat Ali Khan Department of mathematical Sciences King Fahed University of Petroleum and Minerals Dhahran K.S.A. he presented his research work related to relation among the various frames in Banach Spaces. Then Dr. S.J. Abbasi department of mathematics, University of Karachi delivered her lecture on Some Results of Matrix Near-rings.

To be continued…….

Contest for promotion of science planned

The Higher Education Commission (HEC) has recently approved a proposal to initiate National Science Talent Contest (NSTC) for promotion of science and engineering disciplines among brilliant students.

The contest would be held under the auspices of National Science Talent Contest for Science, Technology, Engineering and Mathematics Careers Project.

The major objective of the project is to encourage the youth to opt for careers in science and engineering and to prepare a team of talented students to represent Pakistan in the annual international Olympiads, in physics, chemistry, biology and mathematics. As many as Rs30 million have been allocated for organizing national talent contests in the above-mentioned disciplines.

It is to note that NSTC is an extension of the National Physics Talent Contest (NPTC) that was launched by Pakistan Atomic Energy Commission in 1995 under the directive of the then president of Pakistan.

The key objective of the programme was to give recognition at the highest level to talented students who excel in the national competitions and represent the country in the Olympiads in their respective areas of interest and to groom them for careers in science, technology, engineering and mathematics.

The commission is also making efforts to involve university, school and college science teachers in this activity through Science Teacher Forum (STF). A modest beginning in this regard has already been made in Peshawar, Lahore and Karachi.

It has also been planned to have chapters of Science Teachers Forum in all major university towns of the country in near future.

For the purpose, STEM of HEC has planned training camps in its four home institutions which are centres of excellence in their respective fields. These are PIEAS, Nilore, Islamabad, NIBGE, Faisalabad, HEJ, Research Institute, Karachi University and SMS, G.C.U.

Interview B. K. Dass.

Professor Bal Kishan Dass is a well known coding theorist,(a branch of applied algebra, theoretical computer science and discrete mathematics) He is a professor of mathematics at university of Delhi India. He has two doctoral degrees Namely PhD and D.Sc. He has guided ten students of PhD and has supervised numerous M-Phil dissertations. He has more than seventy research papers to his credit published in various international Journals. He has been to many countries several times as visiting professor/ visiting scientist and has delivered more than one hundred fifty invited lectures at various universities, research Laboratories and international conferences. To name a few, he has been to USA, Canada, Japan, Hong Kong, Thailand, Italy, Greece, France, Switzerland, Germany, and Yugoslavia Australia and China etc. Professor Dass is currently chief editor of four international Journals and on the editorial board of more than ten journals. Professor Dass was interviewed on the occasion of 5th International pure mathematics conference held in Islamabad 2004 and it is being presented to you.

Question: You are here in Pakistan for the first time. May I know your feelings?
Answer: It is my fourth day here and I'm feeling quite at home.

Question: What are your views about 5th International Pure Mathematics Conference?
Answer: I've participated in many international conferences and the impression which I've gathered, is that majority of the Pakistani participants are keen to enhance the level of mathematical education in the country. The presentations made by the Pakistani delegates are reasonably high in terms of contents of various topics and it has been a serious exercise all through. The Pakistani delegates have been looking for comments and suggestions from particularly outside participants in order to improve upon their existing work and suggestion for future research.

Question: You pursued your research work in diverse fields at the same time. What do you suggest for young mathematicians in this regards?
Answer: Young mathematicians from Pakistan are quite enthusiastic to carry forward the current state of art in mathematics particularly in areas of mathematics related to computer science. My suggestion to them is to read good literature in their respective areas of interest to enable them to have a good base for carrying out their research activities. For this I suggest the senior faculty members in various universities to help the young generation to procure literature in the form of books and research journals.

Question: You have seen level of research here in Pakistan. How mathematician of both the countries can cooperate with each other?
Answer: There's an urgent need to develop academic collaborations with various scientists of both the countries. Their respective government efforts and willingness is essential. Such collaboration will be helpful to the scientist of both the countries.

Question: You have worked in pure as well as applied mathematics. How important is the study of pure mathematics.
Answer: The researchers in applied mathematics cannot flourish without a strong base in pure mathematics. On one hand pure mathematics should be allowed to grow for its own sake. And on the other hand there is a need to apply pure mathematics to carry out research in applied mathematics. I know there has been good theoretical physicists in Pakistan who could rise up to the level of being awarded Nobel prize and there are a few amongst the serving physicists who were awarded international prizes for popularization of science but in spite of the fact that physics and mathematics are closely related but math has been left behind.

Question: May I know your suggestions for 6th International Pure Mathematics Conference?
Answer: I suggest that in your next conference you should organize a few symposiums on some of the topics for which you may identify good researchers from around the globe who could make you not only aware of the current state of art in that particular area but also they may give future directions for further research particularly to young researchers. If possible the conference may be followed by a 2-3 days workshop in those particular areas.

School Of Mathematical Sciences GC University Lahore has Announced Intensive Course for University Faculty.

GC University Lahore has been involved in the promotion of higher mathematics with special emphasis on Algebraic Topology. The have decided to organize a condensed course in the said branch of mathematics from November 2-26 2004, at SMS. They have requested those faculty members of various Universities who has the appropriate background in Algebraic Topology or Algebraic geometry to join the course for further information contact 92-42-9231317-19 or visit www.sms.edu.pk

Mathematics Department Air University Islamabad has decided to organize a series of popular lectures

Schedule for the series is as follows

Speakers	Date	Topic
Dr. Rauf-e-Azam department of mathematics Iqra university	1.10.2004	Optimization and its Applications
Dr. B.A. Sleemi Mathematics department Air university Islamabad	8.10.2004	Some simple applications of ODE
Dr Faqir mohammad AIOU Islamabad.	15.10.2004	Probability Distribution
Dr. Qaiser Mushtaq department of mathematics QAU Islamabad.Dr. Qaiser Mushtaq department of mathematics QAU Islamabad.	22.10.2004	Influence and Application of Group Theory
Dr. Ghazala Sadiq department of mathematics institute of Space Technology Islamabad	29.10.2004	An Overview of Operations research.

Venue: Multi-Media Room B-Block, Air University Islamabad.
Time 3 P.M.- 4 P.M.

Email   pl.4@mail.au.edu.pk