Letters

Standardisation of Course Content of CSI courses.

A major activity of CSI chapters all over the country is to organise educational courses on Programming Languages and other aspects of computer technology and usage.

While such courses go a long way towards meeting the need of trained computer personnel for which there is a shortage in our country, there is no standardisation in the course content of these courses. As a result, the contents of the same course offered by two different chapters or by the same chapter in two different times is most likely to be different. This lack of standardisation also makes it difficult for prospective employers to judge the true worth of a candidate who has completed a course conducted by a CSI chapter.

It may be a good idea for CSI to standardise the duration and the syllabus of such courses. This will not only appreciate the worth of the CSI courses, but the CSI course contents can also act as a model for other institutions offering similar courses. The CSI National Executive may consider setting up sub-committees to formulate the course contents of different courses.

P.K. Sen
System Consultant
Regional Computer Centre
Calcutta

B I G Conference 1983

"BUSINESS & INDUSTRY GROUP (BIG) is a very active and important limb of CSI, and has held these conferences in the past. The next meeting of BIG is planned for September 1983 in which discussions will take place on various aspects of common interest and exchange of useful information on the role of computers in Business and Industry. This year's menu will include professional views to improve productivity in organisations through the use of computers. Some of the topics for discussion are Office Automation, Data Communications, Interactive Systems and Management of EDP Installations. Well-informed people will present position papers on these and other subjects, which are yet to be finalised.

The Conference will be held for two days in Bombay at Ghatkopar Towers and the tentative dates are 23rd and 24th September 1983. Please note this in your diary and watch for further announcements. In the meanwhile, if you have any suggestions, please communicate the same to:

Mr. P.J. Kurar
Chairman, CSI Bombay Chapter
C/o The Associated Cement Co. Ltd.
"Cement House", 121 Mahatma Karve Road
Bombay 400 002

Members are requested to please quote their membership numbers in all their correspondence with CSI HQ for speedy communication.

Executive Secretary

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CSI Communications, May 1983 1
Minutes of the National Council (1983) Meeting held on January 19th, 1983 at Ahmedabad

The National Council Meeting (1983) of the Computer Society of India was held at 10.00 AM on January 19, 1983 at the Bhaluikan Bhawan, Near Law garden, Ahmedabad.

The following were present:

- **Execom Members**
  - Prof. S. Sampath, President
  - Prof. Mohan Kaul, Vice-President
  - Mr. M. Goyal, Hon. Secretary
  - Prof. S.K. Prabhakar, Hon. Treasurer
  - Prof. V.S. Rao, Past President
  - Prof. H.S. Sonawala, Past Hon. Secretary
  - Dr. U.R. Bhave, Region II Representative
  - Prof. D.S. Mulay, Region II Representative
  - Prof. M.S. Natarajan, Region II Representative
  - Mr. P.J. Reddy, Chairman, Bombay Chapter
  - Mr. P.J. Reddy, Chairman, Hyderabad Chapter
  - Mr. M.S. Nagarkar, Chairman, Bangalore Chapter
  - Mr. Raje Vaidya, Chairman, Pune Chapter

Special Invitees:
- Prof. R. Narasimhan, IIT-P, Delhi
- Prof. Ramesh Babu, CEC, Delhi
- Dr. S. Chandra, Secretary, Hyderabad Chapter
- Dr. V.P. Sawant, Secretary, Raipur Chapter

The President welcomed all members present.

The following points were discussed:

**Item 1:** Confirmation of the minutes of the National Council (1982) meeting held on January 22, 1982 at Madras

Council unanimously approved the Madras Minutes.

**Item 2:** Review of CSI-83 Preparations

Prof. Mohan Kaul briefed the participants about the CSI-83 arrangements. Members were appreciative of the efforts of the Chairman, and Members of various committees, Members and Management Committee of the CSM Ahmedabad Chapter for the excellent Conference arrangements at Ahmedabad.

**Item 3:** CSI-84 Convention at Hyderabad

Prof. Mohan Kaul announced the names suggested by the CSM Chapter, Hyderabad for the Chairman, Organizing Committee and the Program Committee for CSI-84.

For Chairman Organizing Committee:
- Dr. N. Narayanswamy, CSM, Hyderabad

- Mr. P.J. Reddy, Regional Res. Lab., Hyderabad

- For Chairman, Program Committee:
- Prof. B.L. Deodhar, NISCA, Hyderabad
- Mr. V.K. Premchand, ECIL, Hyderabad
- Dr. D.S. Samra (NICTI), Hyderabad

Prof. Kaul stated that the Conference Committee had detailed discussion and taken into consideration various factors recommended by the following names: Chairman, Organizing Committee, Dr. R. Narayanswamy and Chairman, Program Committee, V.K. Premchand. Prof. P.J. Reddy, Chairman, Hyderabad Chapter did not agree to both names as they were not very active CSI members and suggested alternate names. Dr. S. Chandra, Secretary, CSM Hyderabad Chapter informed that apart from these names alternate names can be considered for the above. Hyderabad Chapter Managing Committee will call for a meeting after getting back to Hyderabad and names will be recommended to President CSI for his view. After deliberations on this point it was suggested that either the President or the Vice-President visit Hyderabad and sort out the matter. Prof. Sampath said that a Conference Committee member should visit Hyderabad to resolve the problem. He sought Mr. Reddy's co-operation in the matter.

**Item 4:** Vencer for CSI-85 Convention

Prof. Mohan Kaul said that he received requests from the Jamshedpur and Pune Chapters for holding the CSI-85 Convention in their respective areas. The Conference Committee was authorised to take a final decision in this matter.

**Item 5:** Consideration and Passing of the Annual Report and Accounts for the year 1981-82

The Annual Report and the Balance Sheet as at 30th June 1982 with the Income and Expenditure Account for the year ended 30th June 82 was unanimously approved.

**Item 6:** International Activities

a) Networks-84

Prof. Mohan Kaul, Chairman, Conference Committee indicated that Networks-84 International Conference will be held in Madras in October 1984. Prof. J.N. Mahabir has been Chairman, Program Committee.

b) Conference on Computer Applications in Food Production and Agricultural Engineering

Prof. Mohan Kaul also informed that a Conference on Computer Applications in Food Production and Agricultural Engineering will be held at Delhi in March 1984. Maj. Gen. S.B. Balasubramanian has been nominated Chairman, Program Committee.

**Item 7:** Divisional/Regional Activities

- a) Business and Industry Group Seminar in Bombay
- b) CAD/CAM Seminar

Some members expressed concern at the way in which the Seminar was conducted. Mr. P.K. Katar, Chairman, CSI Bombay Chapter informed that the Seminar was postponed to September 1983. He requested the President to invite Divisional Representatives to speed up the procedures in organizing the Conference. Prof. Mohan Kaul suggested that the Chapter and Division should work side by side to conduct the seminar as early as possible.

- c) CAD/CAM Seminar

Prof. Mohan Kaul suggested that the National Council nominate the Chairman, Organizing Committee and Program Committee for CAD/CAM Seminar under the TC-5 group.

He was of the opinion that this seminar should be organized either at a National level or at an International level with direct participation of IFIP at Bangladesh in 1983. He also suggested the formation of a task force for the seminar. Prof. Rajeev's name was proposed as Chairman, and Mr. D.H. Bhave was nominated as a member of the task force. Prof. Bhave was requested to nominate other members of the task force.

- d) Regional Conference at Lucknow

Dr. Ulit Bapna informed that a Regional Conference is planned at Lucknow on "USER RESPONSE TO COMPUTER APPLICATIONS." Mr. P.J. Reddy suggested that a Conference on such a topic should be organized in a metropolitan city like Delhi or Bombay where there is a lot of computer activity.

**Item 8:** Approval and Ratification of a new Chapter at Dehradun

Mr. M.L. Goyal informed members that a Chapter for Dehradun was approved by the ExCom. Dr. Ulit Bapna mentioned that this chapter was operative from June 1982 after the Region I Conference at Dehradun. He added that the Chapter had elected a Management Committee and was functioning well. The Council approved and ratified the formation of the Dehradun Chapter.

**Item 9:** Report on Activities of Student Chapters

Prof. Dr. V.B. Mehta's report was circulated amongst Members. Prof. Sampath read out the points brought out in the report for improvement of student activities. It was decided that discussions on the subject be taken up at the next ExCom Meeting at Hyderabad when Prof. Vittal should be invited to participate.

**Item 10:** Committee Reports

a) Education and Awards Committee

Prof. V.S. Bhave reported that from this year onward the Committee reports should be distributed as soon as possible.
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Minutes of the Fourth Execom Meeting (1982-83) held on January 19th, 1983 at Ahmedabad

The Fourth Execom Meeting of the Computer Society of India for the year 1982-83 was held at 9.00 AM on January 19, 1983 at the Shri Kaka Bhavan, Nanu Lane, Ahmedabad.

The following were present:

Execom Members
- Prof. S. Sampath: President
- Prof. Mohan Kaul: Vice President
- M.R. Goyal: Hon. Secretary
- Prof. P.K. Pahade: Hon. Treasurer
- Prof. A.K. Biswas: Past President
- Prof. H.S. Sonawala: Past Hon. Secretary
- Dr. M.K. Bhakar: Region 3 Representative
- M.R. Goyal: Region 8 Representative
- Dr. P.S. Murthy: Division 1 Representative
- M.R. Goyal: Division 11 Representative

Special Invitees
- Prof. R. Resnahan: IFIP Representative
- Prof. Mohan Joshi: TC 2 Representative
- Prof. H.N. Mohabale: TC 6 Representative
- Col. T.V. Narayan: TC 9 Representative
- Prof. V. Rajansan: Member, Nomination Committee

The President opened the Execom Meeting and welcomed all participants.

Item 1: Confirmation of the minutes of the third Execom meeting held at Calcutta on December 20, 1982. The minutes were confirmed with minor modifications.

Item 2: Progress on Previous Minutes
Members were satisfied with the progress on the Action Points on the previous minutes.

Item 3: Review of CSI-83
It was decided to defer the review of the National Council Meeting.

Item 4: CSI-84 Convention at Hyderabad
Prof. Mohan Kaul stated that the Conference Committee had recommended the names of Dr. M.K. Bhakar as Chairman, Organising Committee and Mr. V.K. Premchand as Chairman, Program Committee. The Execom endorsed both the names.

Item 5: CSI-85 Convention
Prof. Mohan Kaul received requests from both Jamshedpur and Pune Chapters for holding the Convention at Jamshedpur and Pune respectively. It was decided to discuss the matter at the National Council Meeting in which the Chairmen of both Chapters would be present.

Item 6: Any other Business
- Prof. M.L. Goyal stated that the Allahabad Chapter had requested for some financial grant. As the Chapter was practically inactive during the past 2 years, the Chapter was not given its share of dues collected from the members. Dr. U.K. Balse mentioned that the chapter had been revived recently and it was necessary to grant some financial aid so that the chapter could organize its activities. This was all the more necessary since Allahabad was a small chapter and it did not have any other financial resources. After discussing, the Execom agreed to a grant of Rs. 1,000/- to the Allahabad Chapter.
- Prof. Mohan Kaul proposed that Mr. M.N. Balse be nominated as Chairman, Program Committee, for the Conference on Computer Applications in Food Production and Agricultural Engineering. The Execom agreed with the suggestion.

The Meeting concluded with a vote of thanks to the Chair.

D.A. Peroia
Executive Secretary, CSI.

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APPLICATION FOR MEMBERSHIP ADMISSION/UPGRADE
(TO BE FILLED BY APPLICANT)

PERSONAL DETAILS

1. NAME
   1.1 TITLES  [DR./MAJ./BRIG./PROP./ Write codes if any.]
   [10]
   1.2 INITIALS  [X. X. X. X.]
   [20]
   1.3 LAST NAME/SURNAME
   [20]

EDP USE

DIRECTIONS

2. ADDRESS
   2.1 ADD LINE 1
   [20]
   2.2 ADD LINE 2
   [20]
   2.3 ADD LINE 3
   [20]
   2.4 ADD LINE 4
   [20]
   2.5 ADD LINE 5
   [20]
   2.6 FIN CODE
   [20]
   2.7 POSTAL ADDRESS
   [20]

3. SEX
   [Male/Female (M/F)]

4. DATE OF BIRTH
   [Write Month, Day Year]

5. PROFESSIONAL DETAILS
   5.1 LINE 1
   [20]
   5.2 LINE 2
   [20]
   5.3 LINE 3
   [20]
   5.4 LINE 4
   [20]
   5.5 LINE 5
   [20]

6. CSI POSITIONS HELD
   6.1 POSITION 1
   [FROM TO CODE]
   [20]
   6.2 POSITION 2
   [FROM TO CODE]
   [20]
   6.3 POSITION 3
   [FROM TO CODE]
   [20]

POSITION DESCRIPTION

Give Chronological Order
CSI positions held
with dates YMMDD

* CSI Office to give

The Computer Society of India is registered under Certificate of Registration No. 41 of 1965 with the Registrar of Societies, Hyderabad.

The purposes of the Society are scientific and educational directed toward the advancement of the theory, and practice of computer science, computer engineering and technology, systems science and engineering, information processing and related arts and sciences. It (a) promotes interchange of information in these disciplines among the specialists and between the specialists and the public, (b) aids the professionals to maintain the integrity and competence of the profession and (c) fosters a sense of partnership amongst the professionals engaged in these fields.

Any person or institution subscribing to the purposes of the Society shall be eligible for membership.

Individual membership grades are: Fellow, Senior Member, Member, Affiliate, Student. Affiliates and Students do not have the right to vote or to hold an elective office. Except for this, all members are entitled to all rights and privileges of the Society. All members will receive the monthly Newsletter as well as the periodic journal of the Society, free of charge.

Affiliation can nominate up to six full time employees for membership. Their membership grades will be as per their individual qualifications. They do not pay any individual membership fees.

Qualification for Admission to Membership of the Society:

Fellow
: To be elected by the Executive Committee of the Society.

A Senior Member
: The grade of senior member is a professional grade limited to those who have been members of the society for at least seven years and have made significant professional contributions in the fields of interest to CSI. Proposals for admission to this grade shall be made by the membership committee and approved by the Executive.

Member
: A graduate from a course of study from an accredited institution with a total period of six years spent in the fields of interest to the Society, or A practitioner regularly employed for at least six years and who by experience has demonstrated competence in work of a professional character in the fields of interest to the Society. An executive who for at least six years has had under his direction important technical, engineering or research work, in the fields of interest to the Society.

The candidate shall provide two voting Members as references.

Affiliate
: The grade of Affiliate is limited to those in good standing of a recognized technical or scientific organization and fulfill all of the requirements for the grade of Member.

The candidate shall provide two voting Members as references.

Student
: The grade is limited to those enrolled at accredited educational institutions and carrying at least thirty per cent of a normal full time academic program, in areas of interest to the Society, or those who are student members of any technical or scientific society, with interests common to the Computer Society.

The candidate shall provide a member of the Teaching Staff as reference.

Institution
: The institution membership is limited to organizations engaged in use, sales, service, research, development or teaching in areas of interest to the Society. A nominated member of an institution shall cease to be a member of the Society on severance of his employment with the institution or if the membership of the institution is terminated.

The Membership Committee of the Society may in special cases, waive the requirement of the two factors or reference for admission.

By virtue of their place of residence, members shall belong to one of the following four Regions of the Society: Region No. 1 : Delhi, Jaipur, Kashmir, Madras, Chennai, Varanasi, New Delhi, Patna, Chandigarh, Dehradun, Allahabad, Amritsar, Ahmedabad, Lucknow, Lucknow; Region No. 2 : Calcutta, Patna, Varanasi, Allahabad, Amritsar, New Delhi, Chandigarh, Dehradun, and Lucknow; Region No. 3 : Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Region No. 4 : Arunachal, Assam, Bihar, Manipur, Meghalaya, Mizoram, Nagaland.

Indicating at the time of payment of annual dues, Division 1 : Computer Architecture Hardware and Systems; Division 2 : Computer Software and Management, Administration, and Business.

A member may belong to a Chapter of the Society in whose territorial limits he resides, or he may elect to affiliate with any other contiguous Chapter of his choice, by an indicating at the time of payment of annual dues.
Monitoring a Computerization Project

J. JAGANNADHM & E. A. ELIAS

1. Presentation

Project management, and all that stands for like PERT, CPM etc. has been a tool for many operating managers. Another vociferously advocated maneuver is automation - and its use in the efficient management of complex projects.

I am sure nobody will dispute this. The problem however lies in practical implementation - the installation of an already existing computerized Package and the successful utilization of all its features to the ultimate satisfaction of the user.

Accordingly, an attempt has been made here to diagnose the problem and to suggest remedial measures. The starting point is (a) The availability of a Package and (b) The possession of a computer by the user, which can handle the package to be implemented.

2.0 Education

The first step would be to sharpen the User's awareness of the salient features of the Package. The User may already be quite familiar with the Package due to the efforts of the Marketing unit of the Computer manufacturer. Also, because of his needs, he may have done some self-study and is probably aware of the theoretical aspects of the computer system.

The above is the most important step. A good job done in acquainting the User with the salient features of the Package should ensure smooth sailing later on.

This step involves (i) a training program carried out by (ii) the manufacturer itself and (iii) the User in building his own model and testing it.

2.1 Training Program

An essential requirement here is the User's awareness of the computer system, its structure, its unique features and the way these features can be put to use. This should be an attempt to get the User involved in all phases.

It is also important that the user understands the capabilities and limitations of the machine. He should be aware of the capabilities of similar packages developed by other manufacturers as references are by nature systems. These should be made to be used by the User bound to make them use the facilities available.

2.2 Demonstration

The usefulness of the Package is best illustrated by a demonstration using facilities that resemble a real environment. It is essential to have sample models for each package. It is quite natural for the User to insist on reports in exactly the same fashion as he was getting from the old system. Such biases have to be ruled out, simply because there is always an element of change. The Client should be given enough time to get accustomed to the new environment and to study the new report forms. The User should be properly trained in the use of the equipment, demonstrated, explained in detail, and discussed at length.

2.3 User Model Building

The User should be guided in building his own model, suited to his organisation. This will serve two purposes. He should be the one to take pride in the Package and its capabilities.

He will get more involved in the actual implementation.

2.4 Implementation

Basic to this phase of implementation is the flow of information. This is not a prime importance. The User should understand what is being done. And this is not a very simple problem. The job does not end with the identification of the source, it needs the concurrence of the user, the format of the information, and its frequency. All these have to be thrashed beforehand.

3.1 A common problem observed is the unavailability of the right person. A person might have been trained for a specific purpose. His knowledge could be transferred to another location. He might be able to do other things. While this is difficult to ensure that all concerned parties stay all the time, care should be taken to identify alternate sources in such cases. This also emphasizes the importance of proper documentation.

3.2 A common problem in implementation is the difficulty in getting the package running. This is often due to the lack of planning at the time of installation. The User should be informed about the steps involved.

3.3 Often the User is left with a vast amount of data to work with. The User should be told of the steps involved in the data transfer.

3.4 Another problem could be the existence of non-technical personnel in the group. Such a person might have been forced by his management to take up new equipment without any knowledge.

He will be the look-out for opportunities to show his advocacy, which could affect the entire program. While spotting such persons is not difficult, appropriate remedial action measures should be investigated forthwith.

3.5 Industrial processes can be highly complicated. It is essential for management (of all the Industries) to realize that they cannot expect the computer or computer technology to fully appreciate their own manufacturing complexities. However, general-purpose a Package might be, it will need modifications to suit the specific requirements of a User. Management must meet the technology halfway by clearly understanding how computers can be used to solve management's problems.

4.0 Document Control

The third step is Manual Control on all input documents. It is essential to have a high degree of control over data preparation. Of course there will be procedural controls exercised by computer programs. Also, Measures like checking, proofing, hash totals etc. should be introduced.

5.0 Time-Bound Program

Another major to be considered in con- trolled data processing is the system, the importance of setting-up and keeping to a scheduled time-table. When a large volume of data is to be handled, the problems that can arise through bottlenecks can be immense. To set up an effective operating time-table requires a balancing of different factors. The latest time that the input will be available from source for punching, the time the job is taken to process, the requirements of the user department and the job priority as laid down by senior management. When a final time-table is prepared, it must be communicated and each department concerned should be given a list of its own particular schedule. Only in this way, will we be able to run the program.
Social Impacts of Information Technology as a Subject in DP-Training Courses

Ashra P. Chyma Khan
Informatica-Kolleg

Gesellschaft für Mathematik und Datenverwerk-
zung, Postfach 1240, D-5000 St. Augustin 1,
West Germany

This paper intends to draw the attention of all DP-
Professionals, specially those engaged in the teach-
ing field, to look at it, that the impacts of information technol-
ogy, in its many aspects, are becoming a part of the curric-
ulum for DP-Training. Motivation for the technical applica-
tions of information technology is already existing examples. Special mention is made of the impacts of information technology on women.

1. Motivation for engagement in social impacts of Information Technology:

First few general tendencies:

1. The computer-based processing of data is taking place in every region of the earth. The demand for Soft as well as Hard-
ware is constantly increasing.

2. The main argument provided for the necessity of the subject is the certain highly qualified jobs in DP-Staff are making few women available.

3. The quality of the majority of jobs in the DP-Staff is decreasing while few highly skilled are remaining vacant.

4. The working conditions for most of the DP-Staff are becoming impersonal, mechanized, unattractive and controlable.

5. Women, as providers of cheap, labour-subsidized from the DP-Staff, are being replaced by women.

Now, it is certainly not the task of a few intellectuals only to look into the social impacts of information technology (IT). An interdisciplinary approach is required. Also students of DP-Professionals have to come off the isolated path and have to engage in the social communican-
systems, even more so.

Looking at the developments in IT in the past twenty years, one often hears of the present informational society replacing the past industrial society. A new commodity in economic terms of

...and everywhere in the world, women are in the minority and face social disadvantages..."
Chapter News

The First Annual Convention of the Dharward Student Computer Club of India was held on 1st March. 1983 at the Statistics Laboratory Hall of the University of Dharward, Dharward.

Professor B.R. Bhat, Head of the Department of Mathematics, JSS College of Engineering, Dharward, and the members of the committee of co-ordination and support from the Bangalore Chapter.

In the Presidential remarks, Professor Bhat expressed the regrets made by Professor Rangaswamy to hold a lecture series in the University of Dharward. The Convention was concluded with the vote of thanks by the Student Council. The program was marked with the help of V. M. Vaidya, Systems Analyst, Computer Centre, Karnatak University, Dharward, and other panellists connected with the computer applications in Dharward for their cooperation in furthering the activities of the Dharward Student Council.

Trivandrum

On 20th March there was a technical meeting in the Institute of Engineers, Kochi. Dr. R. Jeyapalan, Dr. D.P. Hirok, Centre of Engineering, Trivandrum spoke on 'Bean and Beam Conductor'. The lecture was held in the Student Union because the beam is not comparable to any type of computer. He also indicated that achieving such a conductor membrane in pure with human memory is a major problem facing Computer Engineers.

The Chapte is coordinating a COBOL Course for the benefit of members and University students from 22nd April 23 onwards. This is co-sponsored by the Computer Centre, University of Kerala. Faculty members will be from KELTRON, VSSC, University Computer Centre and Data Processing Centre.

Calendar of Coming Events

Call for Papers

Intending authors should submit their paper by 15th June 83. Initial version of the papers is due on 1 October 83.

The address for correspondence is:

Mr. D.R. Jeff
Department of Information Systems University of New South Wales P.O. Box 3013, Kensington, N.S.W., Australia.

NCGA '83 Graphics at work

Chicago, Illinois

June 26-30, 1983

The show is sponsored by the National Computer Graphics Association.

For additional information, you may contact:

Ms. Sunita Acharya
AAMA Computer Council of the United States of America
Bonita Springs, FL
Tel: 822-3611

Third Scandinavian Conference on Image Analysis

July 12-14, 1983

Copenhagen, Denmark

For registration contact:

Svenska Ingenjors Forbundet Denmark
Kongens Nytorv 4
DK-1300 Hambor

Acer Computers

Productivity and Intelligent Robotics
November 17-19, 1983

Berkson (France)

Chapter News

The First Annual Convention of the Dharward Student Computer Club of India was held on 1st March, 1983 in the Statistics Laboratory Hall of the Dharward University, Dharward.

Professor B.R. Bhat, Head of the Department of Mathematics, JSS College of Engineering, Dharward, and the members of the committee of co-ordination and support from the Bangalore Chapter.

In the Presidential remarks, Professor Bhat expressed the regrets made by Professor Rangaswamy to hold a lecture series in the University of Dharward. The Convention was concluded with the vote of thanks by the Student Council. The program was marked with the help of V. M. Vaidya, Systems Analyst, Computer Centre, Karnatak University, Dharward, and other panellists connected with the computer applications in Dharward for their cooperation in furthering the activities of the Dharward Student Council.

Trivandrum

On 20th March there was a technical meeting in the Institute of Engineers, Kochi. Dr. R. Jeyapalan, Dr. D.P. Hirok, Centre of Engineering, Trivandrum spoke on 'Bean and Beam Conductor'. The lecture was held in the Student Union because the beam is not comparable to any type of computer. He also indicated that achieving such a conductor membrane in pure with human memory is a major problem facing Computer Engineers.

The Chapte is coordinating a COBOL Course for the benefit of members and University students from 22nd April 23 onwards. This is co-sponsored by the Computer Centre, University of Kerala. Faculty members will be from KELTRON, VSSC, University Computer Centre and Data Processing Centre.

Calendar of Coming Events

Call for Papers

Intending authors should submit their paper by 15th June 83. Initial version of the papers is due on 1 October 83.

The address for correspondence is:

Mr. D.R. Jeff
Department of Information Systems University of New South Wales P.O. Box 3013, Kensington, N.S.W., Australia.

NCGA '83 Graphics at work

Chicago, Illinois

June 26-30, 1983

The show is sponsored by the National Computer Graphics Association.

For additional information, you may contact:

Ms. Sunita Acharya
AAMA Computer Council of the United States of America
Bonita Springs, FL
Tel: 822-3611

Third Scandinavian Conference on Image Analysis

July 12-14, 1983

Copenhagen, Denmark

For registration contact:

Svenska Ingenjors Forbundet Denmark
Kongens Nytorv 4
DK-1300 Hambor

Acer Computers

Productivity and Intelligent Robotics
November 17-19, 1983

Berkson (France)
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Data Communication & Computer Networks Proceedings of an International Symposium held in collaboration with IFIP (TC-6)
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Rs. 60/- (Extra Postage Rs. 8/-)

EDINFO 82
Proceedings of International Symposium on Education in Informatics.
Rs. 150/- (including postage)

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