INNOFEST '14

SETTING THE TRADITION

IEEE-CIIT LAHORE (STUDENT BRANCH)

TABLE OF CONTENTS

MESSAGE FROM PATREON IN CHIEF

Student Branches are the backbone of professional institutes, so is the IEEE student program. IEEE has created a variety of resources to ensure that students are successful in their work. IEEE CIIT Lahore Student Branch, aims to provide an interactive platform for students to develop professional and technical abilities. Since its inception, it is successful in organizing various events with well-defined objectives.

As an IEEE Student Branch we strive to provide interesting events and activities, and foster experiences that serve to complement the academic experience of CIIT Lahore students—socially, culturally and emotionally.

INNOfest 14' was a big challenge but was warmly accepted by the student body of IEEE CIIT Lahore. At a glance the scope of Mega Event was quite intimidating to us, but that didn't bother us in working hard to achieve success. Their progress was speedy, taking down the hurdles, one by one, in the path of success and it was a great feeling to see them excel towards the goal. It was an honor for me that I led such a team with pitch-perfect coordination and energy. I wish them success in future and hope that they excel even further.

Dr. Sobia
Branch Counselor
IEEE CIIT LHR
drsobia@ciitlahore.edu.pk

EDITORIAL BOARD

WHAT IS IEEE?

IEEE, pronounced "Eye-triple-E", stands for the Institute of Electrical and Electronics Engineers. The association is chartered under this name and it is the full legal name.

IEEE, an association dedicated to advancing innovation and technological excellence for the benefit of humanity, is the world's largest technical professional society. It is designed to serve professionals involved in all aspects of the electrical, electronic and computing fields and related areas of science and technology that underlie modern civilization.

As a member of IEEE you will be presented with new resources, valuable opportunities, discounts and value added member exclusive benefits and services, that will help you advance your career in the right direction.

WHY JOIN IEEE?

Consider becoming an IEEE member, a wise investment in the growth of your own future. The many benefits of membership hold unique and personal value for our more than 400,000 members across all technology sectors. Reasons to Join IEEE:

PEOPLE - Build your professional network
CAREER - Use exclusive career resources
INFORMATION - Keep current with technology
LEARNING - Expand your continuing education

IEEE Conferences-IEEE members receive deeply discounted access to technical seminars, IEEE conferences, and conference papers.
Local IEEE Section - Get involved with colleagues at your local IEEE section, who can help connect you to professionals who can advance your goals.

IEEE is the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity. IEEE and its members inspire a global community through its highly cited publications, conferences, technology standards, and professional and educational activities.

IEEE-CIIT LAHORE (STUDENT BRANCH)

MESSAGE FROM CHIEF SUPERVISOR

I am pleased to share with you IEEE CIIT Lahore Branch's first annual newsletter. The prime focus of this newsletter would be the detailed coverage our first Innofest. ICLB has risen to prominence in very little duration.

At first when the proposal of Innofest came to us, we thought it to be a gigantic mountainous terrain, conquering it would be a tedious, infact an impossible task. But the students proved us wrong. Their hard work really played well in making Innofest 2013, the most successful event, both in terms of participation and positive feedback given by the guests, in our society's history.

I appreciate the efforts of all the students involved in Innofest 2014. Making this event even more successful was also possible due to the capable help of Ms. Tabassum Nawaz, Ms. Ayesha Ali, Ms. Arsla Khan and Mr. Ameer Hamza; and last but definitively not the least i personally appreciate the sincere efforts of Mr. Muhammad Mohsin, who was with us at the start of Innofest till the very last event.

We would Insha-ALLAH try to organize Innofest annually, and working hard to make it a traditional event of COMSATS Institute of Information Technology, Lahore.

Sincerely,
Haad Akmal
haadakmal@ciitlahore.edu.pk

MESSAGE FROM CHIEF EDITOR

Dear Readers!
It is indeed a pleasure to introduce you to the first ever issue of IEEE COMSATS Lahore- Chapter Newsletter, which we hope that all of you will enjoy. This Newsletter is the result of extensive efforts of our Editorial Board; it was possible only because of their sheer motivation and dedication towards work.

IEEE COMSATS Lahore- Chapter was established in 2008 and numerous seminars, workshops and events were organized under its umbrella since then. The newsletter specifically targets INNOFEST'14, a mega event, recently organized by IEEE CIIT Lahore. This edition also includes the history, advantages and importance of IEEE.
I seize this opportunity to thank all those who have submitted their contributions for this Issue. I would like to encourage all our readers to share their insights about the newsletter with the IEEE CIIT Lahore student body, and do consider joining this prestigious organization as a member.

Muhammad Bilal Javed
Editor in Chief
IEEE CIIT Lahore
bces11-29@ciitlahore.edu.pk

IEEE CIIT Lahore decided to go all out and present to you INNOFEST'14 which was held during CIIT student's week, 28 – 29 March, 2014. The event consists of a series of technical and non-technical competitions. These competitions are a mix of knowledge and application of spontaneous skills, all at the speed of thought.

KEEP
CALM
AND
JOIN
IEEE

MESSAGE FROM EDITOR

Dear Reader,
I would like to welcome you all to the very first edition of the IEEE-CIIT Lahore newsletter. It is indeed an honor and pleasure to introduce to you the 1st Issue of the newsletter, which we hope you will enjoy.

This edition includes events organized in the university by IEEE-CIIT Lahore student branch, along with the messages from different faculty heads, the event heads and the Head of Department (E.E), Dr. Sobia Baig. I seize this opportunity to thank all those who contributed for this issue. The assistance and guidance of the editorial board as well as the efforts put in by the team. As newsletter editor, I welcome your articles and input to help keep the newsletter entertaining and informative. Please feel free to provide your feedback and send information with photos for inclusion in our forthcoming issues. On that note, I wish you all the very best for the coming semester and year. Thank you.

Khadija Shabbir
Editor
IEEE CIIT Lahore
Khadija_dmak@hotmail.com

We are feeling lucky now that we all were part of INNOFEST'14 a successful event in the history of IEEE CIIT Branch. When we started our journey of IEEE, we started planning of this event and for learning did many other events so that we make our self-eligible for INNOFEST'14 as this is the Mega event that we have to do.

FRIDAY, MARCH 28, 2014
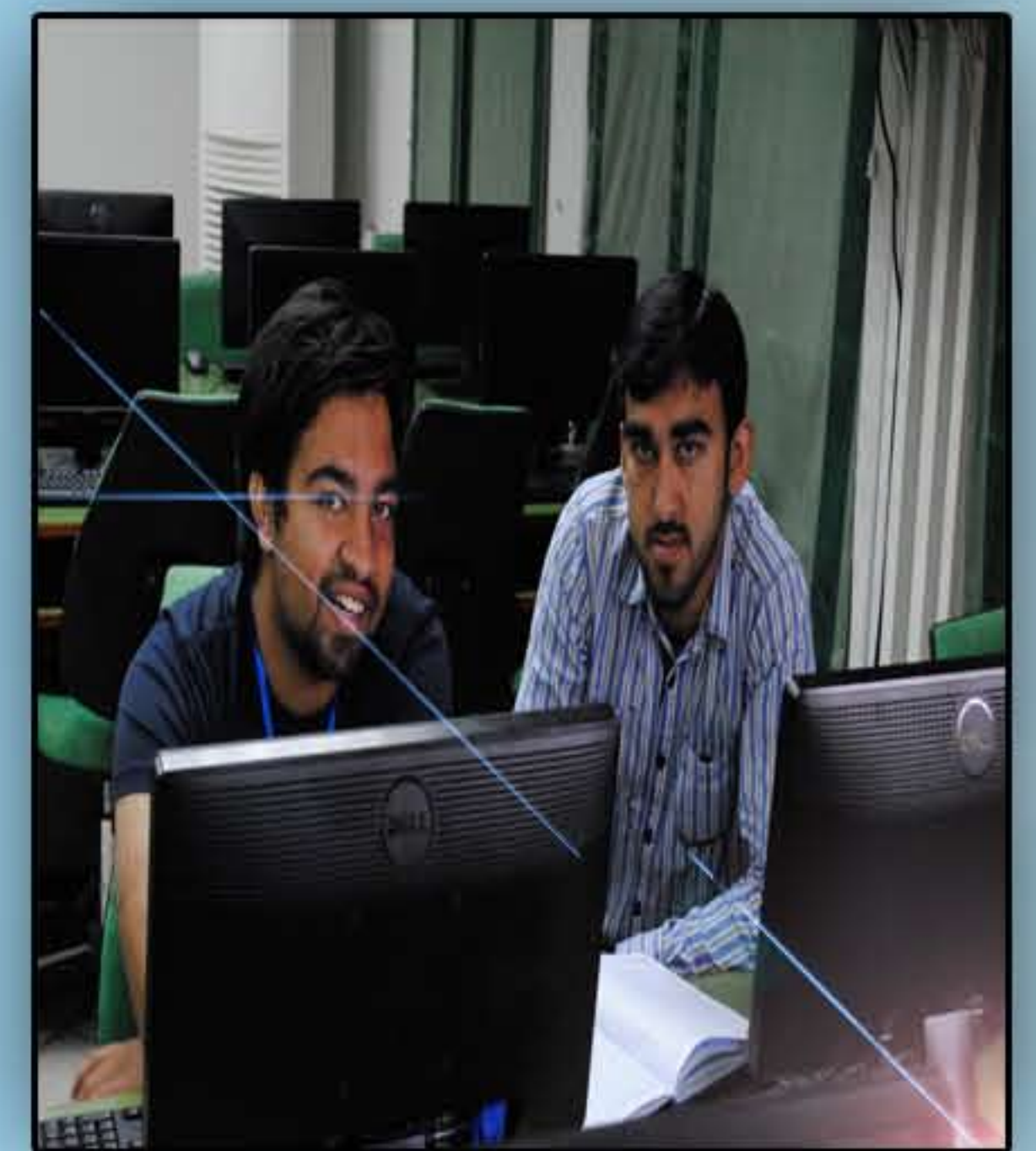
G.P Lab-D

CS DEPARTMENT

MUHAMMAD IRFAN ALI

EVENT HEAD

Ex CODE COMPETITION

Event took place in G.P Lab, CS department. Event commenced at 11.20 a.m. Event comprises of 4 volunteers along with speaker, Zarak Khan, event head and his assistant, Syeda Kanwal. The event comprised of 7 teams competing against each other to determine the best programming mind. The participants used programming language C, C++ and JAVA. The competitors were allowed to program in their C or JAVA or could use Turbo C++, Dev C++or NetBeans. Teams of UOL, FCC and COMSATS participated in the event.

The competition was based on two levels i.e. the basic and advance level. The basic level was to judge their logic developing abilities and the advance level will determined who can best manipulate concepts of advanced programming. These include 2-dimensional arrays, recursion, trees, linked lists etc.

Team of UOL, comprising of Mashood Ahmad and Shahab Dogar was declared the winner. They scored 38/40. This event was more of an event if learning. Teams showed their skills. Chief Guest was impressed with the time of completion of the winning team as they completed their task way before the 2nd team.

It was the first event of INNOFEST'14 which was a great step toward the success. Event concluded at 12.45 p.m. with great appreciation to the event head, assistant and the volunteers for their hard work was valued.

"how would you counter electricity-cut in this event?"   __ participant
"with hope!"   __ organizer

FRIDAY, MARCH 28, 2014

M.P.I Lab

E.E DEPARTMENT

MUHAMMAD IRFAN ALI
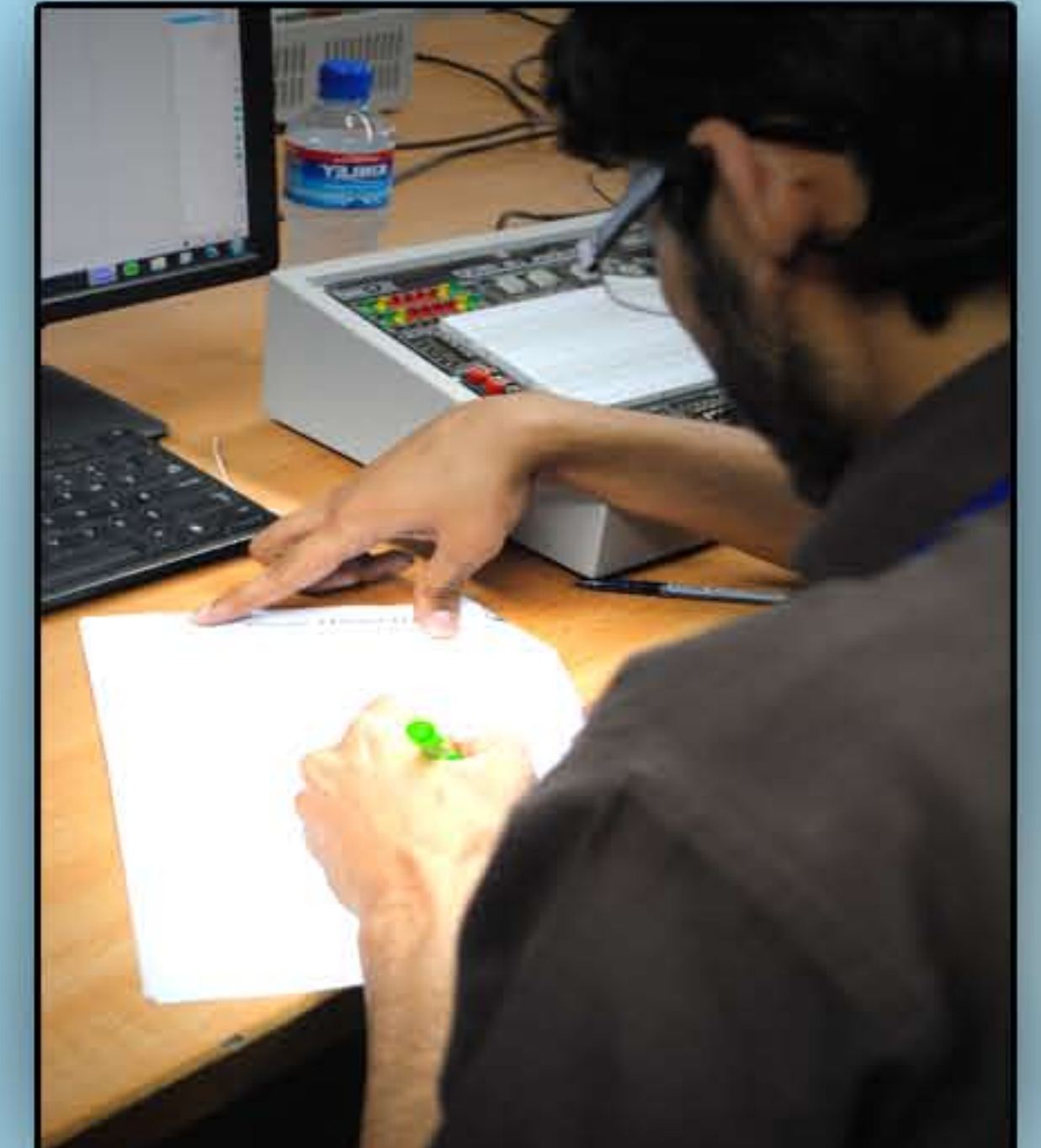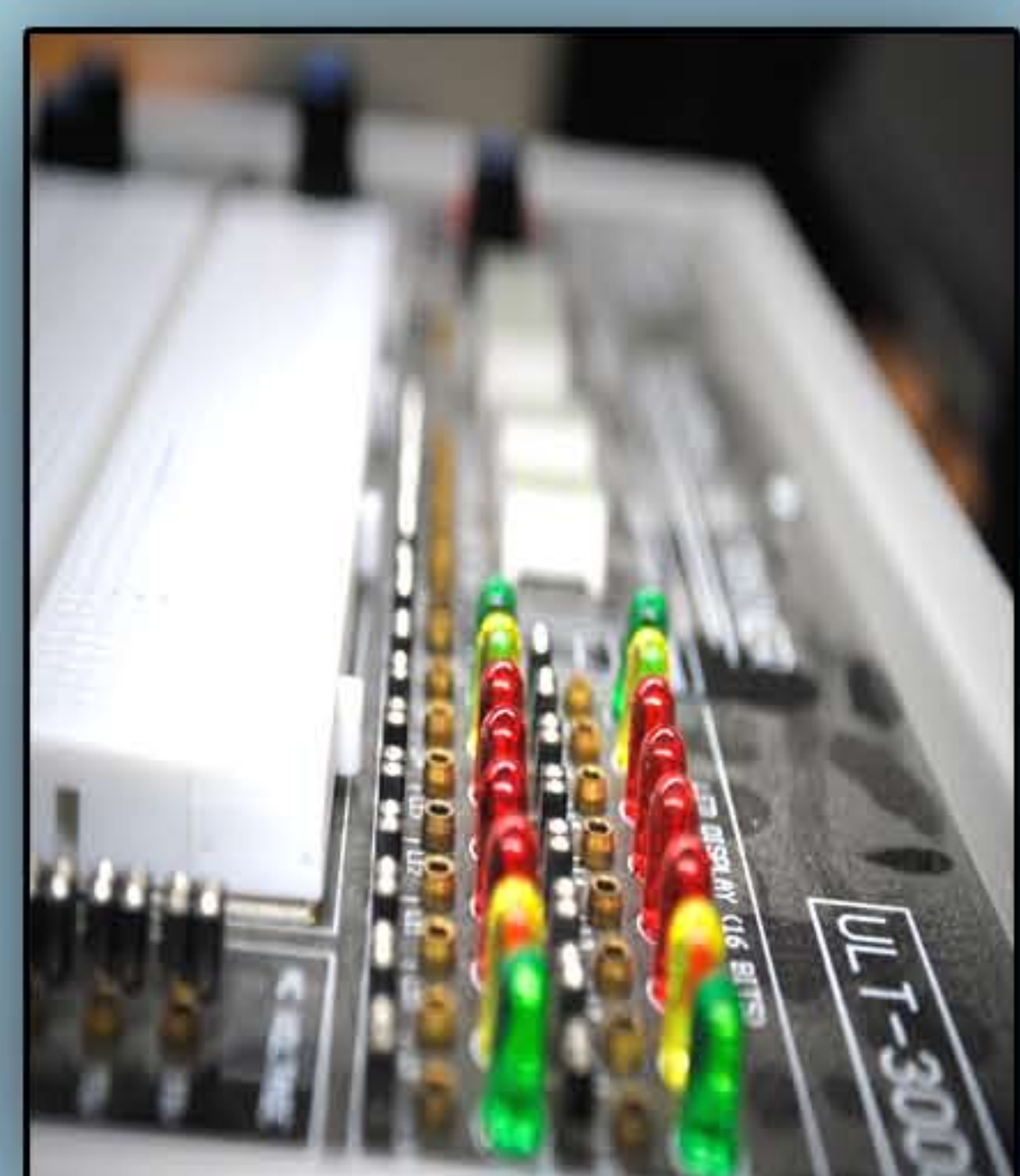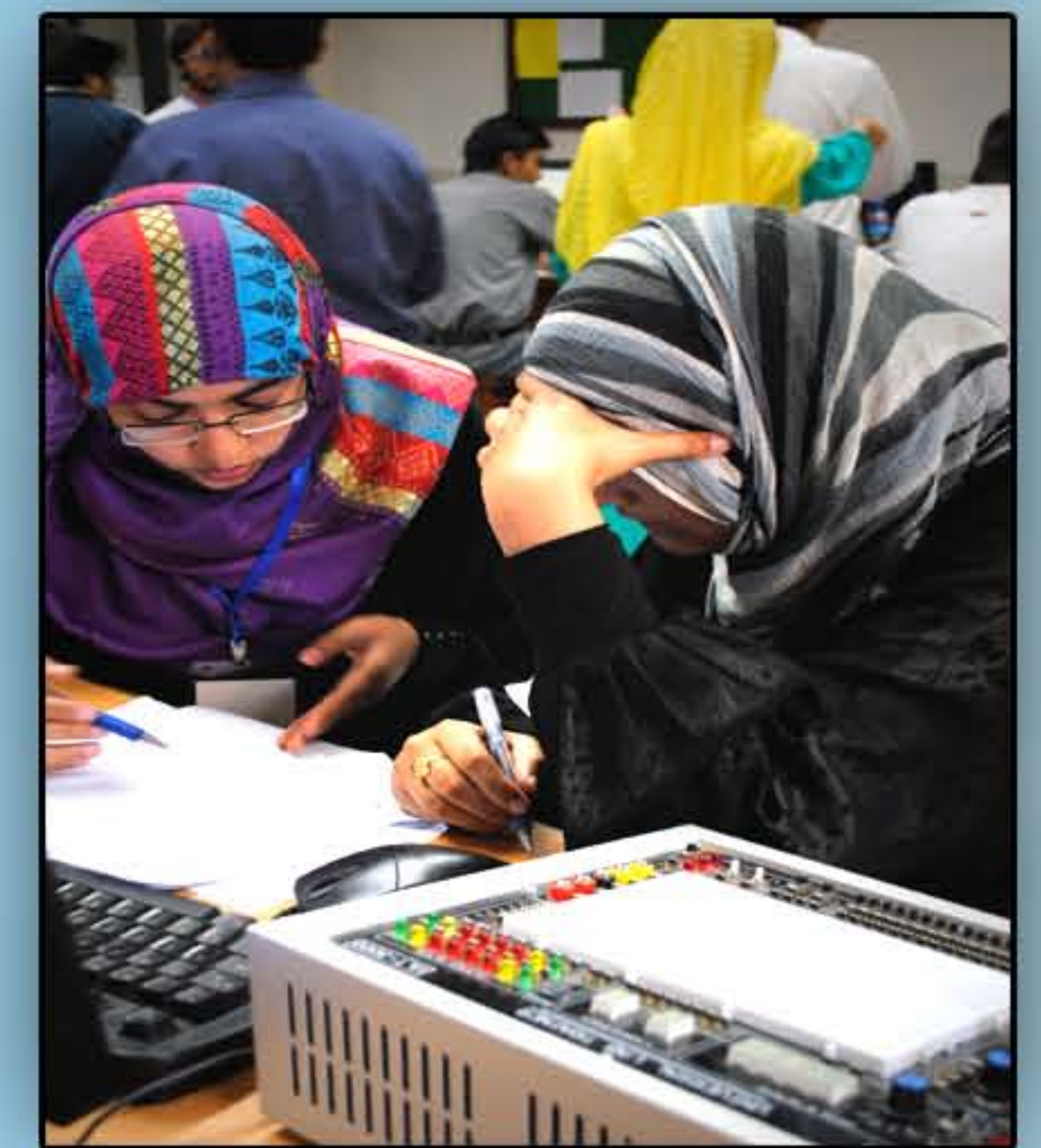
EVENT HEAD

CIRCUITX COMPETITION

Event was held in M.P.I lab, EE department. There were 5 volunteers along with event head and his assistant. The event was judged by Dr.Khurram Ali and Mr.Mohsin with Dr.Engineer Ejaz Ahmed Ansar being the Chief Guest. Event started at 2.45 p.m.

This event provided the competitors an opportunity to polish their skills of circuits. It was even a great platform where team-work was the key to success and their bonding was observed which led the event to be known as a successful one. The participants had to use common gate ICs like AND, OR and NOT in their task. Teams from UMT, UOL, UCP and COMSATS participated in this event.

Event comprises of two rounds, one theoretical and the other practical. In the first round, the teams were to use their theoretical skills to fill out TRUTH TABLE, K-MAP, BOOLEAN EQUATION and CIRCUIT DESIGNING. In the second round, the teams created the circuit on Proteus for software simulation and on trainer for hardware simulation. While the judges were busy in finalizing the results chief guest held a questionnaire with the competitors. Chief Guest gave in his speech, addressing the competitors, appreciating their work which was more of a motivation for them.

Team from UMT comprising of two boys, Waseem Amjad Sheikh and Usama Masood, was declared winner of the competition. They scored 30/30.

"it's so good to see you people showing what you are made up of, this is the beauty of this event!"

___ Dr. Ansari

FRIDAY, MARCH 28, 2014
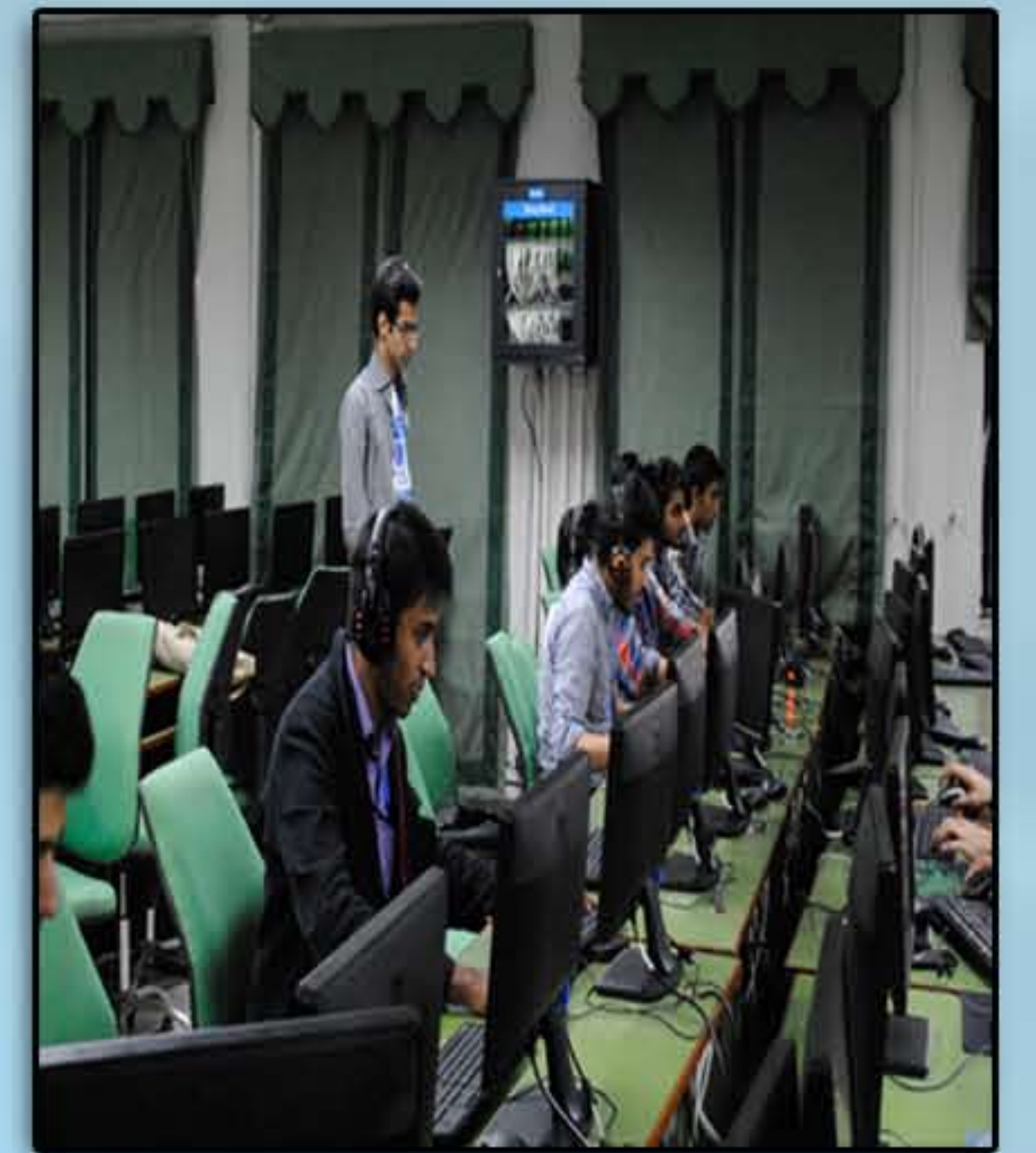
G.P LAB-D

CS DEPARTMENT

OMER HAYAT

EVENT HEAD

e-GAMING COMPETITION

The event started sharp at 4:09 p.m. Teams from different universities had registered from the event. These include University of South Asia, University of Lahore, Superior University and the COMSATS Institute of Information Technology Lahore, itself. One Team from each university registered apart from COMSATS Lahore, from which two teams registered for Counter Strike.

The first round was "de-dust2". Teams will be shuffled after 7 rounds. First team to score 8 points, wins the game. Both COMSATS teams lost their initial rounds. The tournament proceeds with team UOL challenging team USA and team Superior challenging team UMT on the same map, de_dust2. Team USA beat team UOL by 10-3 and team Superior beat team UMT by 10-0. So now the team USA and Superior were the undefeated contender for the finale. Both the team leaders agreed on changing the map, preplanned as aim_headshot, to inferno. Since the teams agreed, we had no issue with that.

The finale begin at 5:14 p.m. Both teams determined to be declared the ultimate winner. Team USA won the toss and they elected to be terrorist first. Team USA scored the first point, since it was a 15 points game, as of the ladder with the medal. Team Superior grabbed the very next point showing them that they are no less than them. Till the 6th point, both teams were at level pegging and then team USA started to loose or you can say team Superior started to gain what they were practicing. After shuffling of teams, at 11th point of team Superior, team USA grabbed a very close, a must say "snatched", point from team Superior. It was the momentum they needed. Rounds after rounds, team USA started gaining what they lost in the time not far. At 13th point, both teams again were level pegging. There were 2 ties between them, messaging neither of the teams ready to give up and they have come up so far to grab the victory. Another close call and team USA grabbed another point. They were now only game point away from the winning line. They just had to score 2 consecutive points to claim the victory. Team Superior did their very best not to let team USA grab the points but it appeared that luck was with team USA. They won after a 57 long minutes' battle. They all jumped from their seats the moment they scored the decisive point.

Team Superior accepted their defeat and they knew they only lacked a fraction which team USA gained.It was a good tournament and an absolute cracker, the finale was. One of the many things we learnt from their play was how far WILL you go to accept your accept your defeat or how far CAN you go for the win?The answer is twofold. You either let it go till you reach the point of breaking or you either keep stretching until you reach!

Mr. Zarak challenged Sir Had Akmal for 1-on-1 match of TAKKEN TAG TOURNAMNET

"ready to get a humiliating defeat, zarak?"
"I'm all here, sir!"

__ Sir Haad Akmal
__ Mr. Zarak

SATURDAY,MARCH 29, 2014
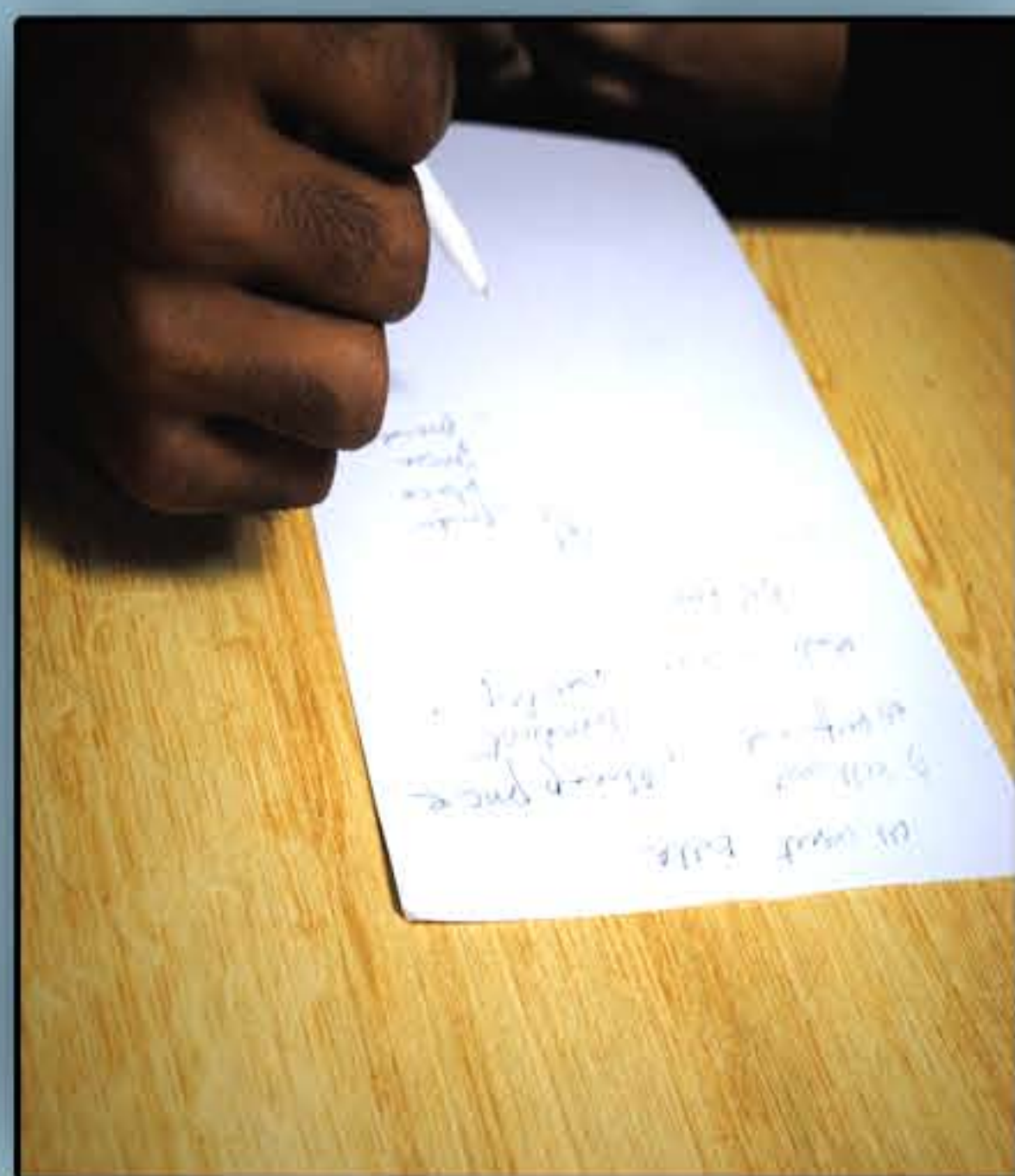
MUHAMMAD ABU BAKAR

SEMINAR HALL

EVENT HEAD

PHYSICS DEPARTMNET

SPEED MARKETING

Marketing is the science of choosing target markets through market analysis and market segmentation, as well as understanding consumer buying behavior and providing superior customer value.
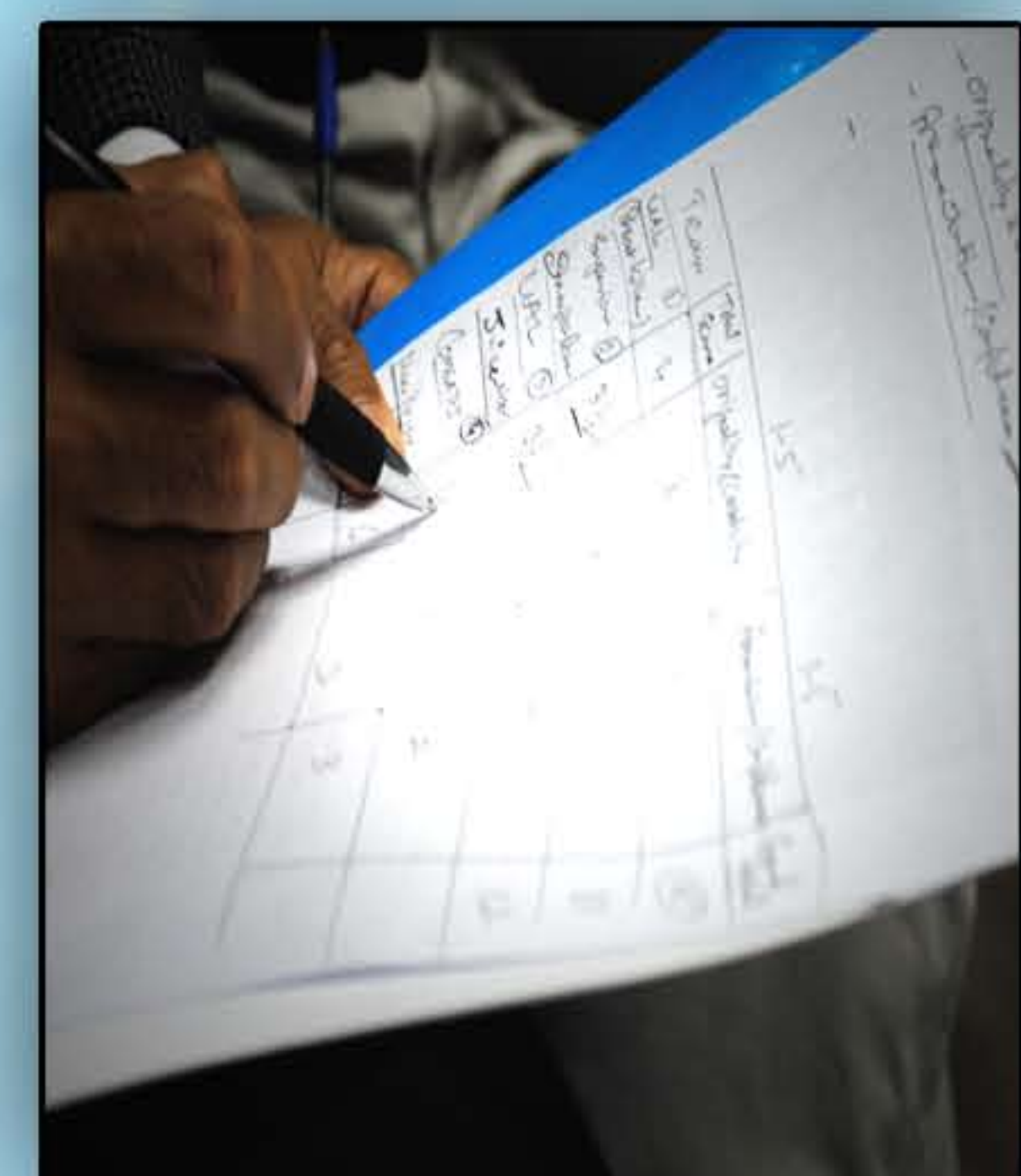
Event took place in Seminar Hall, Physics department. Event started at 10.35 a.m. There were five teams .Each team comprising of two participants. The respective teams were provided with a company product and were given 5 minutes to think and prepare for marketing the specific product. They were then given 90 seconds for convincing the audience and the judge that this product is worth buying.

This event was more of an entertainment for the audience. It was no doubt one platform where skills of marketing were highly challenged. It provided teams to prove themselves about their convincing power. Teams learned a lot from one another which was more important than learning by oneself.

The winners of this event were from E.E department which was a moment of pride for we cannot underestimate anyone. Audience was greatly impressed by the team members. Everywhere was a laughter which gave it a refreshing environment. Reflecting the traditions of Student week events, this event was one of its kind of our campus history.

"today future engineers have proved to be more skilled than profesional marketters!"

_____Judge

SATURDAY, MARCH 29, 2014

OUTSIDE A-BLOCK
(BARA DARI)

PHYSICS DEPARTMENT

MARYAM IQBAL

EVENT HEAD

JUNK ART

The event took place on March 29th, 2014. Event was led by Maryam Iqbal along with her assistant, Ayesha Izhar, under the supervision of Sir Haad Akmal. The chief guest of the event was Miss Tabassum Nawaz. Event was judged by Sir Mohsin, Miss Ayesha Ali. Event was held at A-Block known as "BARA DARI".

The event comprises of 13 teams competing against each other to determine the best creative skills of art. There were teams from UOL, KC, PU, Home Economics, PIFD, UOG, Superior University and COMSATS. The competition was completely based on skills, it was more of one showing his/her creativity she/she possess. It was great to have boys for the junk art competition.
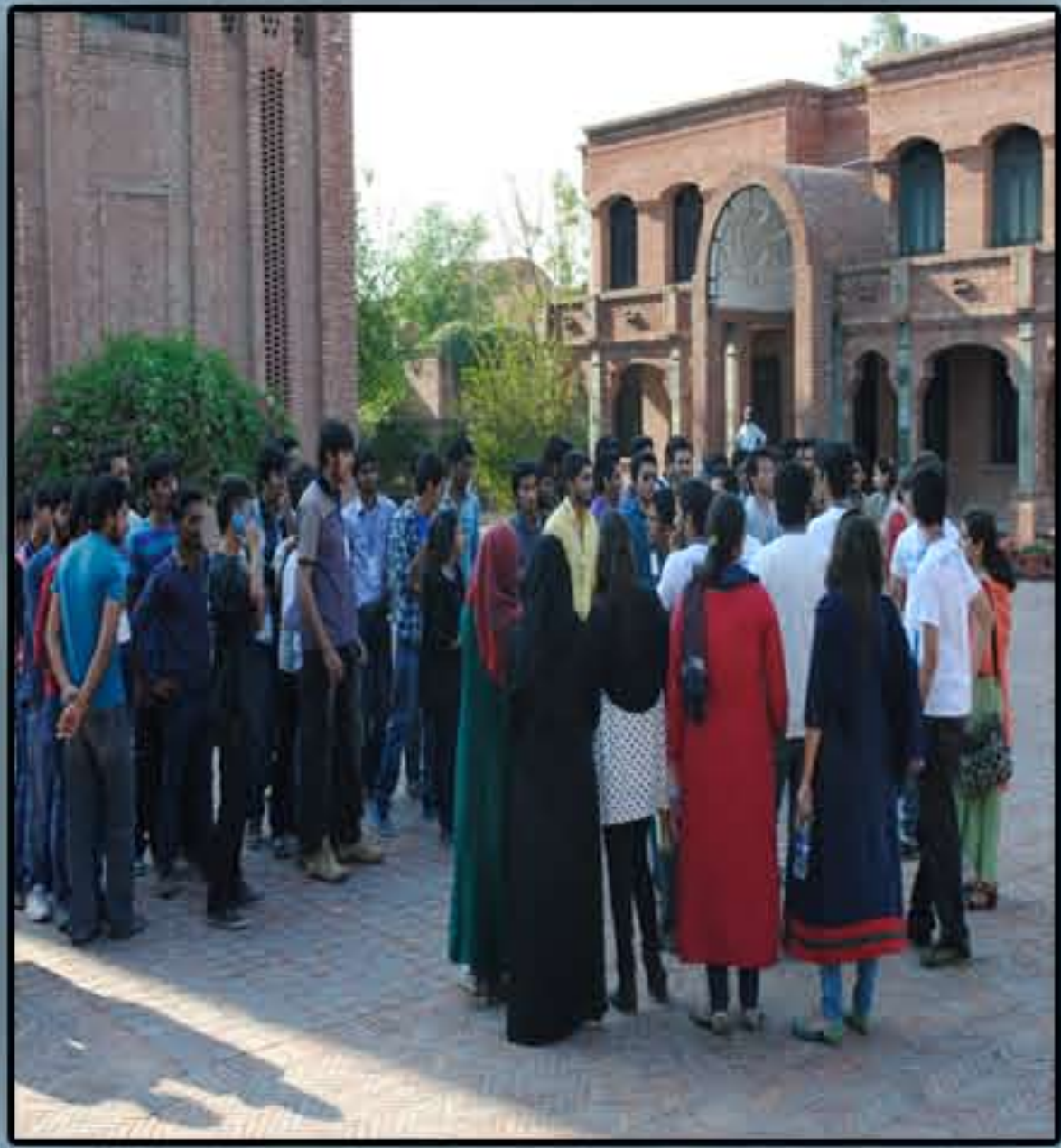
While the judges were finalizing the results, Minister of Information Technology, Mr. Zahid Hamid, visited the place and appreciated the competitors which was a great motivation. A picture session occur of those of participants and their creativity.

This event was one of the main step towards the success of Innofest'14. It was more of a refreshing environment. This event greatly helped the participants to learn more and polish their hidden skills of creativity. Event was made worth attended because of the host who entertained the audience as well as the participants.

"do you have a scissors because they (mangements) seems to have one short"   __participant
"yes I do have a scissor and no you cannot have it becasue it worth PKR 600!"   __organizer
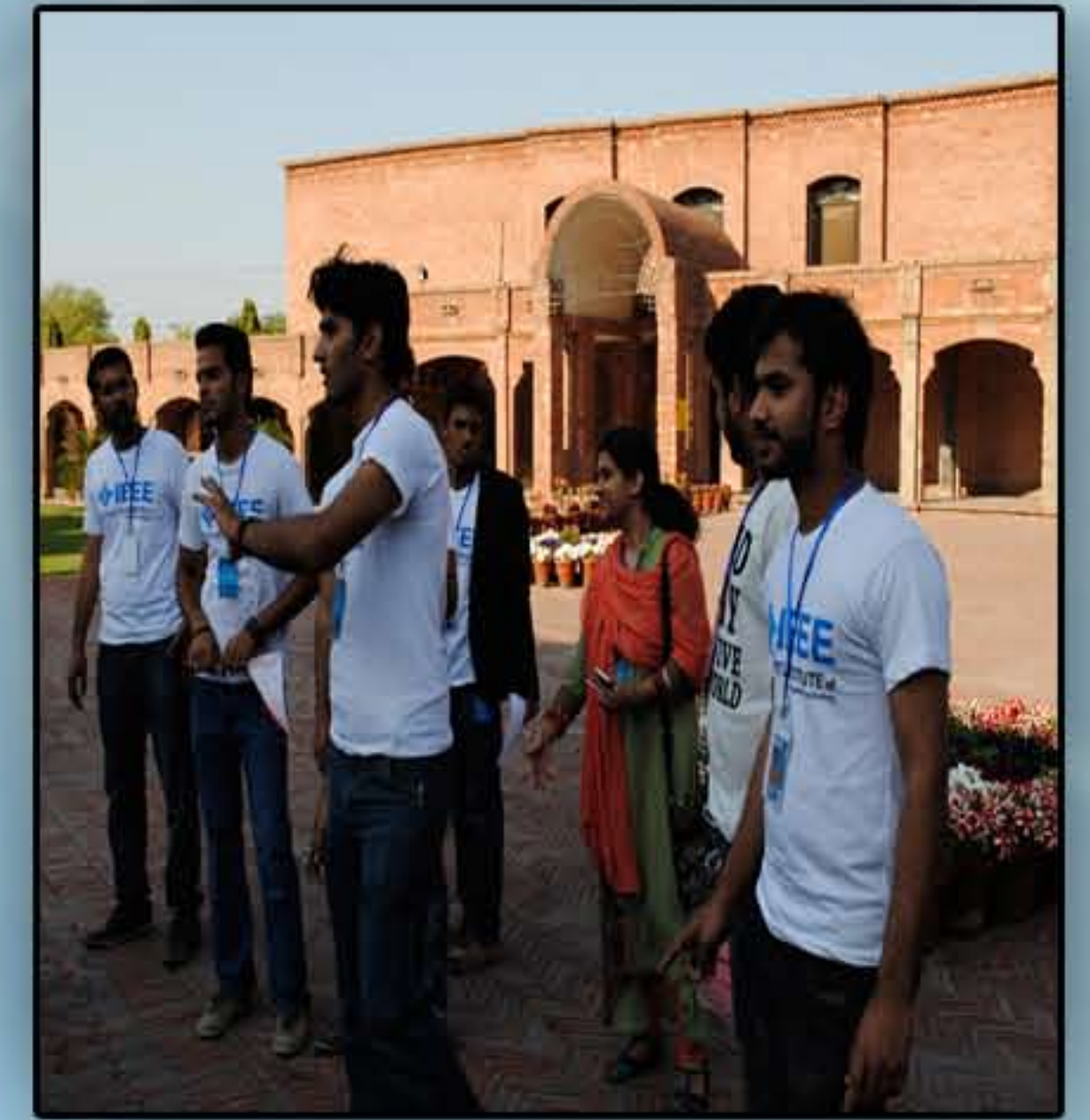
SATURDAY,MARCH 29, 2014   OWAIS RAO

ALL DEPARTMENT   EVENT HEAD

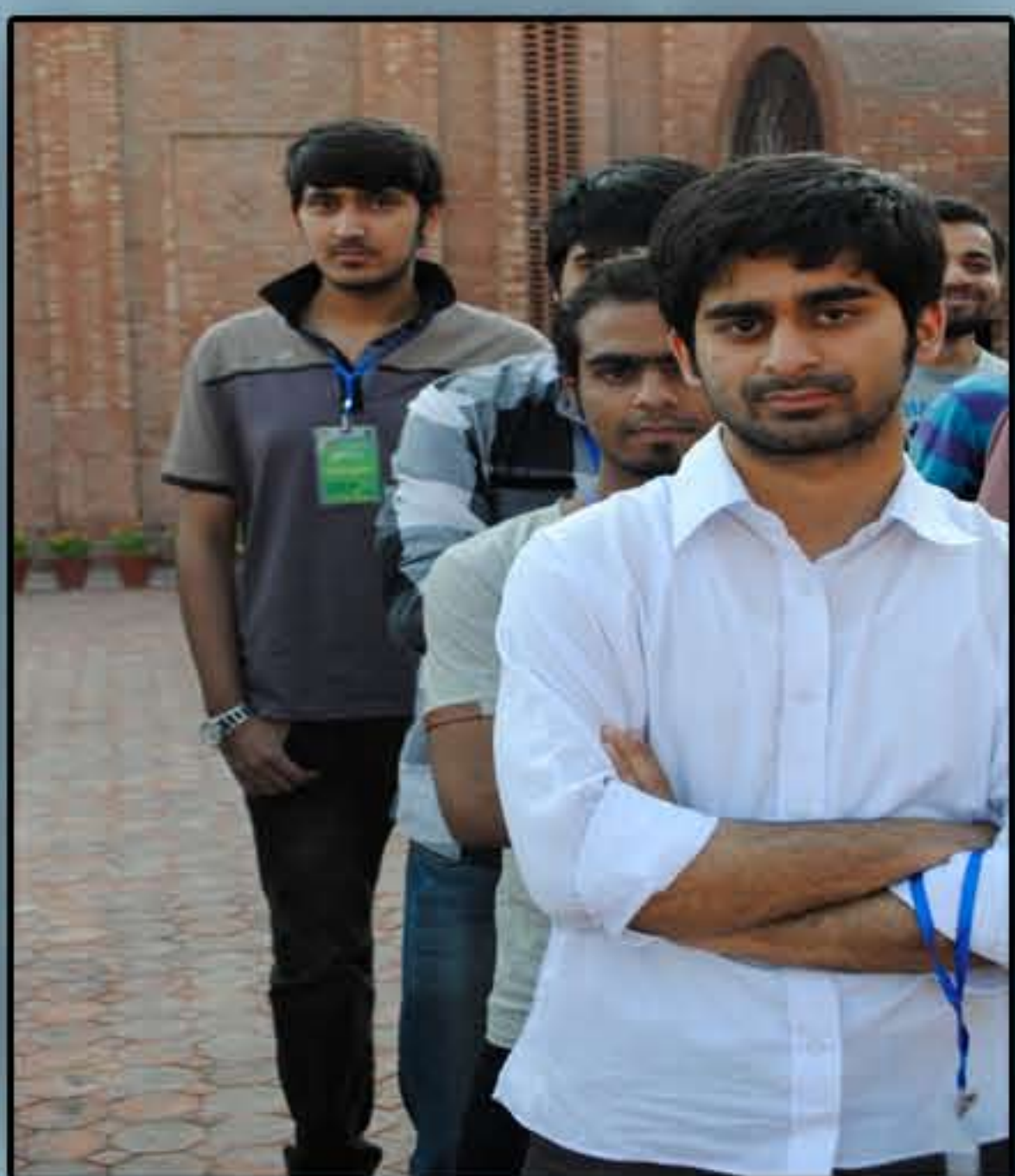UNIVERSITY CAMPUS   SCAVENGER HUNT

Scavenger Hunt is a game about to solve clues in written form. Participants take part in the form of teams, each team have 5 members. Each team gets its first clue and the destination assigned with it in the starting of the game. Team will have to find their next clue hidden somewhere by guessing/solving their first clue.

Scavenger Hunt was held 1st time in previous students week in October 2013. This event was led by .10 teams were participating in that event. They executed an excellent team work. But in the last there was a tie between two brilliant teams. They shared the prize money along with the winning memento.

This event faced issues regarding time. It was because of the plan of arrival of Chief Minister of Punjab and the arival of Chancelor COMSATS, Mr. Zahid Hamid, for the convocation cermony. Due to high security, many destinations were omited and new were planed, which was difficult task. Event head look into different possible destinations, made new clues which ,ofcourse, required time but event head did it fastly and efficiently.

Event was judged by Mr. Muhamad Mohsin and Mr. Haad Akmal. It apears as history repeated it self, as in many factors, jury declared two teams as winner as a result of tie. Both the teams had 13 clues and 6 flags. Teams shared the shield and winning momenta.

"Everyone ready? shall we start the event?"

"we are waiting for the 60 minutes and yet you are asking us this!"

___ Event Head

___ Participants

SATURDAY, MARCH 29, 2014

BILAL JAVEED

THE FOUNTAIN GROUND
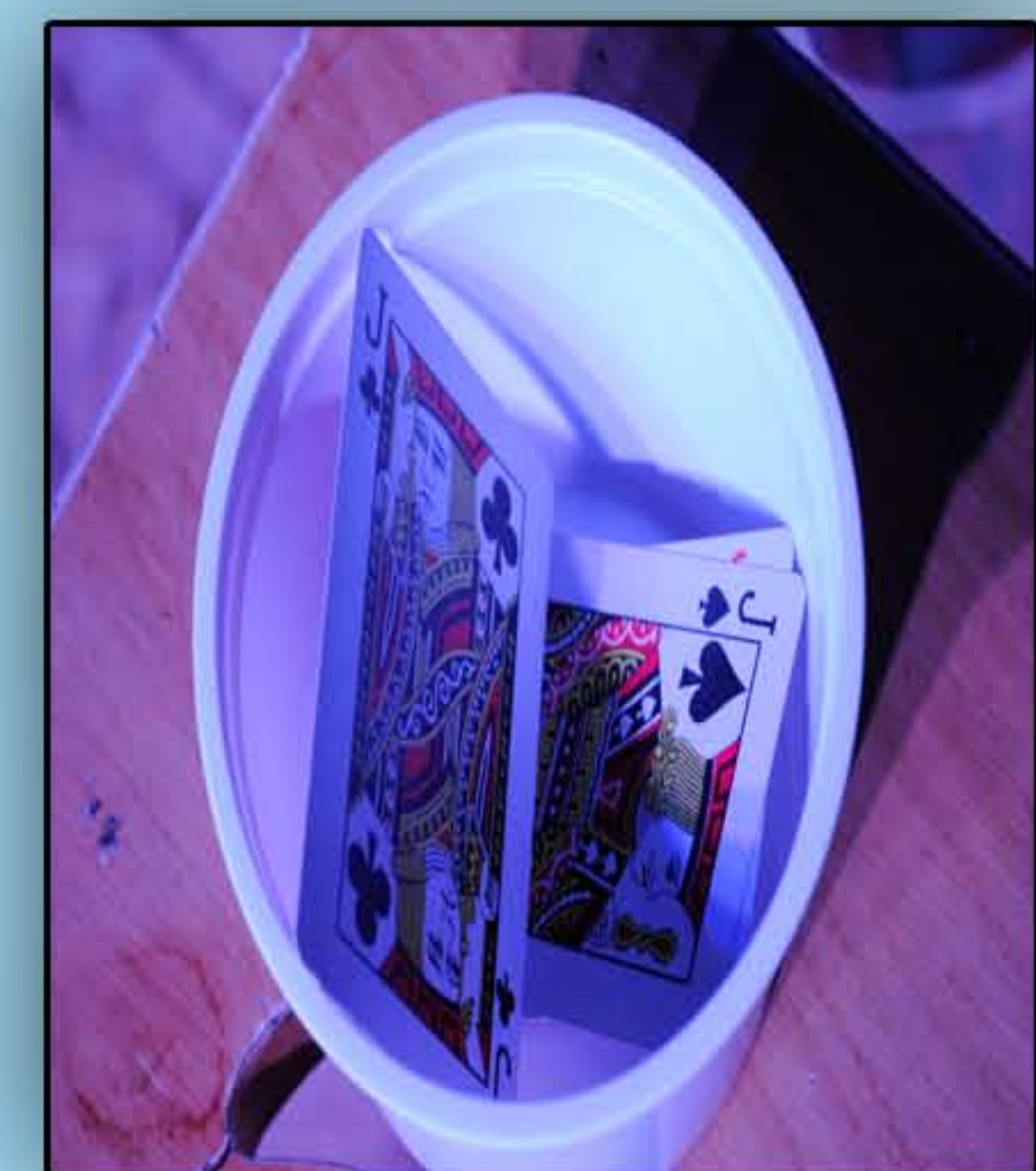
EVENT HEAD

E.E DEPARTMENT

MINUTE 2 WIN IT

An interesting idea was put forward for this year's mega event of IEEE. It was suggested that the popular game show "minute 2 win it" should be organized in Innofest' 14. Belated than never, the event started at 6:45 p.m. The stage was prepared along with the lighting and sound system fancy, a backstage for the event but the event head and his *minute team* manged the time very well.

There were 7 candidates from different universities. The games were fun and the candidates were enjoying it too. The audience were energetic too, cheering for the candidate. Many candidates won level and many closely failed but nobody was left with empty hands, which was a very good gesture from the event head.

In the last game, Mr. Bilal called the 2 faculty members for head-to-head challenge to conclude the event. Mr. Haad Akmal and Mr. Muhammad Mohsin was called on stage for a competition. They were given 2 soda cans of 330ml each. Whoever finished first, will be declared **THE SUPERMAN** of the event. Both the players shake hand. As soon as the buzzer went ON, they started drinking their cans. It was with blink of an eye that Mr. Haad Akmal emptied the first can, which was very much necessary for his win. With the blink of 4th eye, Mr. Haad Akmal emptied both the cans and in excitement, he throwed the can at 150 degrees angle, counter clockwis,e showing audience who's the **BOSS**. Ofcourse that's how he rolls. He was declared the ultimate winner and the show concluded with it.

"are you ready? you better be coz you gota minute 2 win it!"
"actually I'm not but I can try and break the stuff!"

___ Event Head
___ Participant

IEEE-CIIT LAHORE (STUDENT BRANCH)

MESSAGE FROM CHAIRPERSON WIE-IEEE

Whoo!! Time flies, I remembered the day when I first time step in as a listener in IEEE introductory seminar. Since then it's a never ending journey. To me it's more like a family than an organizational unit. Professional exposure, social circle round the globe and everlasting memories; you receive a complete package after joining IEEE.

Being the pioneer of IEEE WIE CIIT, always is the proud moment, we achieved big mile steps that would be the asset of ExCOM 2012-2014.
(i) IEEE WIE CIIT Lahore Best student WIE Branch affinity group in Region 10 (beating 56 countries).
(ii) IEEE WIE CIIT Lahore Best student WIE Branch 2012-2013 in Annual Grand Meeting held in LUMS.
(iii)IEEE WIE CIIT Lahore Best Event poster (for junk art competition) in WIE Congress 13' held in GCU LHR.
(iv) IEEE WIE CIIT Lahore Best Event name (for junk art competition) in WIE Congress 13' held in GCU LHR.
It's always a team work. Blessed to have such dedicated passionate members and the support received from the faculty advisors. Combining the ingredients will end up definitely in blast!! I would like to say thanks to Dr. Sobia Baig, Sir Baber Magsi and Sir Haad for believing in us, working under their guidance is a great learning experience. Wishing all the best for the young Excom. I hope that this legacy will be maintained and they take the society to the new horizon. IEEE INNOFEST'14 is huge achievement on the account of IEEE CIIT Lahore. We fight, we giggled, we raise issues and we solve cracks so much thrill pack fun in two days will definitely be stored in memory box till death.

MESSAGE FROM VICE CHAIRMAN IEEE

Thanks to ALLAH ALMIGHTY and Well Done Organizers of INNOFEST'14. I congratulate you all for this successful event. Hats off to all. We dreamed this event since summer 2013 and then the day came where the dream comes into reality, it's just because of the efforts and dedication of you people as a part of IEEE family, we never able to do this alone but the encouragement of you made it possible.

I really thank our Councilor Dr. Sobia Baig, Vice Councilor Mr. Baber and Mr. Haad Akmal who put their beliefs on us and allow us to do INNOFEST'14. It is one the biggest event in my life as well and I ever dream of it. I have no word how I explain it and the response from other universities regarding INNOFEST'14 is incredible, IEEE CIIT INNOFEST'14 was the continuation of our schema. INNOFEST'14 brought the best student engineers and computer scientists together from different universities to come up with all their skills and knowledge. The event was an extravaganza of technical and recreational activities. These competitions were a mix of knowledge and application of spontaneous skills, all at the speed of thought. I received messages from USA, UOL, Superior and UMT that you guys really are awesome and the teamwork is appreciated.
Lastly, I must thank IEEE which provides me such opportunity AL HAMDULLILLAH to make myself and I am good in documentation just because I did it for IEEE like reports etc. Also I learn time management and learnt a lot through this platform this is real honor for me and I can proudly say that I am the Vice Chairperson of IEEE-CIIT Student Branch.

We must bear in mind, then, that there is nothing more difficult and dangerous, or more doubtful of success, than an attempt to introduce a new order of things in any state. For the innovator has for enemies all those who derived advantages from the old order of things, whilst those who expect to be benefited by the new institutions will be but lukewarm defenders. This indifference arises in part from fear of their adversaries who were favoured by the existing laws, and partly from the incredulity of men who have no faith in anything new that is not the result of well-established experience. Hence it is that, whenever the opponents of the new order of things have the opportunity to attack it, they will do it with the zeal of partisans, whilst the others defend it but feebly, so that it is dangerous to rely upon the latter.

IEEE-CIIT LAHORE (STUDENT BRANCH)

MESSAGE FROM CHAIRMAN IEEE

Well Done TEAM INNOFEST'14. I congratulate you all for this successful event. To be honest it was the biggest event in the history of IEEE CIIT Lahore. The best part of the event is the commitment of you people with IEEE. The way you people worked for this event is outstanding. No words to explain how bless we feel to have team like you. You people make a dream come true. Hats off to you all.If you think we are bursting with pride, well yes we are, we decided a year ago that we will organize the biggest and best of all time event in the history of IEEE CIIT Lahore Student Branch and well we did it. Our mission is simple, our objective is clear... As an IEEE Student Branch we are here to provide events and activities, and foster experiences that serve to complement the academic experience of students socially, culturally and emotionally.

This is a really overwhelming moment for me due to the success that our team has finally fetched. We would have never been able to realize the frame of our dreams without faith of Branch Counsellor, faculty members and of course it goes without saying that the cooperation and support of IEEE authorities is indispensable. We would like to thanks Director CIIT Lahore for their support for INNOFEST'14. We are really grateful to HOD Management Sciences, HOD Physics, HOD Computer Science, transport department, works department, Student Services Center and security for their help and support during the whole INNOFEST'14. We would like to exclusively acknowledge the support of whole department of Electrical Engineering for IEEE INNOFEST'14.

Last but not least, the networking opportunities offered by the IEEE at the worldwide scale are crucial for improving our academia, industry and government performances. For that reason, I invite all of you to take part in IEEE CIIT Student Branch activities and by so to contribute to the development of our university, industries, businesses, government and of our country as whole.

Ahmed Daud
Chairman IEEE
ahmeddaud@hotmail.com

"Imagine there is a door marked Fear and behind that door is all of the things you have wished for all of your life. You try to open the door and it's locked. The key is overcoming that fear so that you can have the things you want and be the person you have always wanted to be. It's different for each of us, and isn't always a very strong feeling. It is sometimes a low-level vibration, that slight underlying feeling of dread that bubbles up when thinking of doing something new or venturing into the unknown. Everything you have ever wanted is on the other side of fear. What we fear doing most is usually what we most need to do."