Interview with Dr. Steve Crocker on Early Internet.

Dr. Steve Crocker, is the CEO and co-founder of Shinkuro, Inc., a start-up company focused on dynamic sharing of information across the Internet and the deployment of improved security protocols. Dr. Crocker has been involved in the Internet since its inception. In the late 1960s and early 1970s, while he was a graduate student at UCLA, he was part of the team that developed the protocols for the ARPANET and laid the foundation for today's Internet. He organized the Network Working Group,

Dr. Steve Crocker

which was the forerunner of the modern Internet Engineering Task Force and initiated the Request for Comment (RFC) series of notes through which protocol designs are documented and shared. For this work, Dr. Crocker was awarded the 2002 IEEE Internet Award.

E-Newsletter: *As an Internet Hall of Fame Pioneer, can you tell us how the internet has evolved through the years?*

Dr. Crocker: It is an interesting story because you can look at it in terms of the normal success and how much it has affected people. The impact are mostly positive. Some problems were spams and crime and so on but the connections has being for everybody. You can also look at it in terms of how certain it was? Was it always going to be this way or with an accident? And in interest there is a lot of accidents or uncertain junctions were things might have turned out very differently and there was quite a few of those on the way for instance, the story of how the internet came to be got more delicate new answers than it is generally believed and today it will be looked at as a big thing but it could be more different.

E-Newsletter: *Were there major challenges in terms of the development?*

Dr. Crocker: Yea, certainly one of the biggest challenges was with the adoption of TCP/IP as a standard protocol. Another challenge was the ability to have independent networks connected together but not to have them all in one organization. Another that I talk so much about but in the earlier days, was the routers which were big machines; they connect to one or two or three may be four machines. Then there was a period where local area networking was the major topic; a major research topic and there were different kinds of local area networks if you look at the history books. Eventually the internet became the dominant technology but there was a period when that was not certain at all. In fact in the early 1980s, I was working in a company that needed to have a local network in and around the campus with several buildings and those days the internet technology was still in its early stage. The internet connections were with cables; they will run sort of a link from the buildings but could not get in between one building and another. So we actually built the network with two different technologies. A ring network that connected the building and we have to put one computer in each building to serve as a gateway and then we put the internet tail in there. That was not common but we make that work. It was very expensive but it was the only way for that moment. There were numbers of very interesting challenges but I just named a few.

E-Newsletter: *What can you say about internet in Africa?*

Dr. Crocker: Africa is very important and there are lots of technologies available. There is a head play with the economics of bringing in high valuable clients. There are lots of tension between structures that are in existence and structures that will have to come into existence to make this communication available and one of the great things about Africa is that some countries would work better than others and then there will be opportunities to learn from each other, to help each other and that actually is more of strength than a weakness I think.

E-Newsletter: *Thank you sir.*

NSE PH BRANCH EXCO MEETING HELD ON THURSDAY 2 AUGUST 2012 AT THE BRANCH SECRETARIAT

The Nigerian Society of Engineers
Port Harcourt Branch
In collaboration with
DELTEC ENGINEERING LTD.
ORGANIZES
3 DAYS WORKSHOP ON:
DESIGN, CONSTRUCTION & MAINTENANCE OF SWIMMING POOLS & UNDERWATER STRUCTURES

WHO TO ATTEND:
- ENGINEERS - ARCHITECTS - DESIGNERS
- MAINTENANCE CREW - STUDENTS & OTHERS

DATE: WED. 22ND - FRI. 24TH AUGUST, 2012   TIME: 9.00AM DAILY.

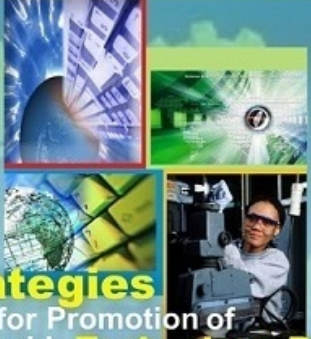**Venue:** Engr. Ishmael A. Banigo secretariat, Water Works Yard, 3 Bernard Carr Street, Port Harcourt.

Time: 9.00 am Daily.

Fee:
Registered Engineers (N60,000)
Students/Graduate members (N30,000)
Others (N65,000)

Enquiries:
Engr. Denis Dania (08033395137)
Engr. Emmanuel Idoniboye (08033099805) &
Engr. Precious Bob-Manuel (08033302175)

The Nigerian Society of Engineers
announces its
NATIONAL ENGINEERING CONFERENCE, EXHIBITION AND ANNUAL GENERAL MEETING
"HARMONY 2012"
Theme: **Strategies** for Promotion of Sustainable **Technology-Based** and **Production-Driven** Economy in Nigeria

Venue: **KWARA HOTEL, ILORIN**
Date: **3rd - 7th December, 2012**

Funeral Ceremony of Engr. G. C. Egbunefu FNSE on Friday 10 August 2012 In His Home Town.

The wife of Late Engr. G. C. Egbunefu FNSE (left) and his children during the funeral ceremony.

Some NSE PH Branch members led by the Branch Chairman, Engr. Denis Dania during the funeral ceremony of Late Engr. G. C. Egbunefu FNSE