

## Fellows to the IEEE 802 Plenary (November 2015)

Name	Nabil Benamar	Dessalegn Yehuala
<b>Primary &amp; Secondary WG of Interest</b>	IEEE 802.11 IEEE 802.15	IEEE 802.16 IEEE 802.3
<b>Areas of Interest</b>	<ul style="list-style-type: none"> <li>• High Efficiency Wireless</li> <li>• Next Generation Positioning</li> </ul>	<ul style="list-style-type: none"> <li>• Delay Tolerant Networking</li> <li>• Low Power Lossy Networks</li> <li>• High Efficiency Wireless</li> <li>• Software Defined Networks (SDN)</li> <li>• Other - Information Centric Networks or Content Centric Networks</li> </ul>
<b>Why do you wish to attend an IEEE 802 Plenary? What do you intend to accomplish or get out of the experience?</b>	<p>I have co-authored an IETF draft about "Transmission of IPv6 Packets over IEEE 802.11p Networks draftpetrescu-ipv6-over-80211p-02.txt". This work was focused on IEEE 802.11p standard. And since then I became curious about the process in which IEEE standards are created and how can I join IEEE working groups as I do with IETF. Indeed, I have been and still involved in many Internet organizations (IETF, ISOC and ICANN) but still did not get the chance to participate in an IEEE meeting to be able to understand its model so that I can explain to my student the real differences between IEEE and the other standardization bodies. I would like to learn more about the future of 802.11 and 5G.</p>	<p>Ever since I started learning and practicing local area networking the enthusiasm of mastering the various notions in the IEEE 802 standards has been an integral part of my professional career (both in the industry as well as the academia). Because of the ISOC fellowship program (I have been a recipient of the ISOC-IETF in four occasions- IETF71, 77, 85, 89) I got the opportunity to know the internal makings of the IETF including how a particular issue can be tabled for a BOF meeting and evolves to a working group formation. The meetings I attended helped me as springboard for me to contribute in mailing list discussions in the ICNRG and GAIA working groups. I am also a subscriber of the ICCRG and AQM mailing lists. I am highly keen to get similar opportunities in this round of fellowship so as to be able experience similar feelings in the IEEE</p>

<p><b>How does the work of the IEEE 802 standards community relate to and impact your work or area of study?</b></p>	<p>I'm interested in the encapsulation of IPv6 in the different MAC layers such as 802.11p and others. It's really important for me to know about the frame layer so that it is possible for me to think about layer 3 and above protocols that can deal with layer 2 characteristics. I'm also working on vehicular networks and more precisely VDTN. I need to know about the physical details and limitations of such context so that the simulations I'm doing in my team can make sense. Indeed, the choice of the physical layer and the mobility models in such simulations is a crucial issue that greatly impacts the results.</p> <p>I need to deal with realistic conditions, which need a deeper knowledge of the physical and MAC layers. And here comes the role of IEEE in standardization.</p>	<p>standardization process. More importantly, I want to be involved in it and collaborate with fellow practitioners and researchers to push the boundaries of knowledge to the limit.</p> <p>I work for the Computer Science Department of the Addis Ababa University as Lecturer and Researcher. I conduct lectures on computer science courses with data communication and computer networks and Mobile Computing and Wireless Communications being one of them. Attending the event would enable me solidify my knowledge of the IEEE 802 standards which will have a cascading or multiplicative effect in addition to effectively teaching the courses. Given the opportunity, attending the event will also help me to enhance my research capacity- I have been conducting a research on ubiquitous access to big data on constrained networks.</p>
<p><b>How will you apply your experience at the IEEE 802 Plenary to your own professional activities after the meeting?</b></p>	<p>I will try to extend my network to some new IEEE faces so that we can launch some new collaboration. When I'll be working on an IETF draft, I will know where to look for IEEE information related to this work and the person I can contact in IEEE to seek for some help. After attending the IEEE 802 Plenary (if selected), I will gain more knowledge about</p>	<p>I may have to bank on my previous experience in IETF meetings which I found it to be successful in many respects. I will start to subscribe to mailing lists of interest immediately; I will also read relevant materials to catch up and be actively involved and contribute in mailing lists or Webinar discussions as well as face to face meetings.</p>

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IEEE so that when I'm invited to speak about standardization bodies, my presentation will contain a deep overview about IEEE, which I was not able to do in my previous speeches! My previous ISOC fellowships to the IETF have been very successful and fruitful for me since I'm now co-author of 2 drafts and working on a third. I hope I can have the chance to collaborate with IEEE wg members to increase and enhance my productivity.

**Describe your plan to share the experience and the knowledge you gain at the IEEE 802 Plenary with your local or regional technical community. Please include succinct plans that you will conduct in the Post-Meeting Project if you are selected as a Fellow.**

I am planing to describe my experience through my blog [nabilbenamar.ipv6-lab.net](http://nabilbenamar.ipv6-lab.net) and with my students in the university.

I'm planning to prepare a presentation about IEEE 802 plenary, which I will present in local workshops where I'm regularly invited.

I will contact our IEEE Morocco Section members and executive committee to invite them to organize a seminar, workshop or conference where I can expose and share the knowledge gained in the plenary.

I will also expose my experience with members of my ISOC chapter even that the majority are still concerned by non technical aspects of Internet governance.

I hope to be able to join an IEEE wg after my fellowship to help in shaping the future of Internet.

As a Lecturer working for one of the biggest University of the country, I have access to three class of audiences to share my experience of the meeting. Evidently, I can share the experience gained to undergraduate students while teaching the computer networks and mobile computing and wireless communications courses. I also handle practical sessions of distributed systems for postgraduate students which I will do the same. I will also share my experience of the meeting to academic staff members by arranging a seminar as I always do after returning from IETF meetings.

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**Are you involved in any Internet related or standards development organizations or activities apart from ISOC or IEEE? (ICANN, W3C, NRO, local/regional Internet governance dialogues, etc.)?**

I'm member of the Task Force for Arabic Script in Internationalized Domain Names (TF-AIDNs), which is a part of Global Stakeholder Engagement (GSE), a team of people appointed to demonstrate ICANN's commitment to international participation and the efficacy of its multi-stakeholder environment. I will give two presentations in ICANN'54 on behalf of the TF-AIDNs.

I'm also member of the coordination committee of MENOG (<http://www.menog.org/menog-coordination-team/>)  
IPv6 trainer with MENOG/RIPE  
IPv6 consultant with AFRINIC

I have been involved in the Open Data Barometer and the Web Index of the World Wide Web Foundation for three years on the trot in conducting researches on the Global Open Data landscape and the Web Index as Countries Lead Researcher. I am also a subscriber of the cross community accountability working group of ICANN mailing list.

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