

Profession? Engineering!

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Editorial

by **Kizito NGOA**, *President of the Order*



Scientific advice in decision-making

Modern society can be qualified as a society of knowledge, one based on the penetration of knowledge in all the spheres of life.

Owing to the complexity of today's world, to the inexorable rise of new technologies and to the discovery of new types of immediate and long term hazards, modern States are receiving an increasing number of requests from their citizens to intervene in new areas. As the sole and lawful advocate of public interest, endowed with the requisite wherewithal to arbitrate on complex issues, the State is perceived and increasingly stands out as a key player in scientific and societal debate. That notwithstanding, it is nonetheless important to question the capacity of decision-makers, not only to make informed decisions but simply to understand the extent of the issues at stake.

Scientific expertise still remains a key ingredient to assist modern States in decision-making and the management of such expertise as well as its systematic integration in the decision-making process takes on added significance.

Where appropriate, the decision-maker shall resort to the advice of one or more specialists, bearing in mind that in a democratic system, decision-making must be as transparent as possible.

Besides their initial training in humanities, law and management, it will be highly unrealistic for decision-makers to have undergone extensive training in exact sciences. Anyway, such a training will neither help them do without the required expertise nor enable them easily understand scientific issues. On the contrary, henceforth, sheer ignorance of scientific knowledge and processes as well as lack of interest in sciences shall be unacceptable.

We should therefore say « Stop » to the discrimination of subjects with a scientific content in the general initial training we provide.

GA24

The 24th General Assembly of the Order was held at Best Western Hotel in Douala on April 29, 2022. Highly appreciated, the event was an opportunity for members of the Order to meet in their numbers after several months of restrictions and lockdowns due to the Covid-19 pandemic.

Deliberations of the GA were marked by four major events, namely: the graduation of some Engineers, the swearing-in ceremony of Engineers, the review and adoption of elements relating to the management of the Council of the Order and the electoral agenda.

The first two phases were very lively with the award of the grade of Emeritus to some fifteen experienced and confirmed Engineers and later with the swearing-in ceremony of a large number of newly graduated Engineers.

In the course of the third agenda item, the impressive number of Engineers present once more lauded the achievements of the Council of the Order and granted same discharge for its management. An action programme and related budget were endorsed following discussions aimed at enhancing greater efficiency in NOCE activities for the defence of the interests and promotion of the profession. It is noteworthy that the GA granted authorisation for the purchase of a piece of land wherein NOCE headquarters shall be built.

The GA retained the month of November for the launching of the electoral process aimed at renewing the terms of office of members of the Council of the Order and the Auditor.



A highly attended GA meeting

WARNING!
Check on the Roll of the Order
that you are indeed dealing
with a CIVIL ENGINEER.

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Kizito NGOA

Redaction
André Bosco CHEUOUA
Julienne MANGA
Salomon MONGO ESSOMBE

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DIGIWORKS

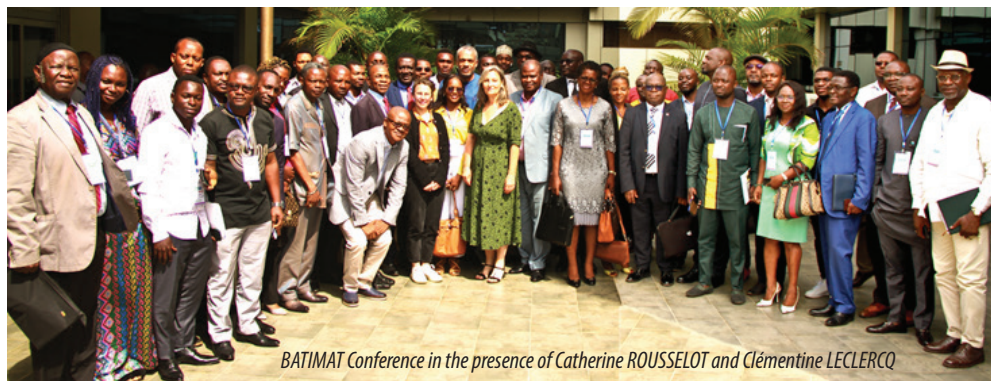
News

- The President of the Republic has promulgated new Law No 2022/007 of 27 April 2022 to protect the national road network.
- The Association of Approved Private Geotechnical Laboratories and Consultant refuses to part take in the implementation meetings of the MINMAP-MINTP Joint Order of November 30, 2021 on the geotechnical compliance certificate. As a prerequisite, it calls for an amendment of the instrument in its provisions relating to LABOGENIE, deemed to be acting in the process as judge and jury.
- The two IBRD-financed contracts relating to the pursuit of rehabilitation work on the Babadjou-Bamenda road stretch were awarded to two Cameroonian enterprises (BOFAS and BUN'S) for an amount, inclusive of taxes worth 14.3 and 21.5 billion CFA Francs and a work execution time limit of fifteen (15) and eighteen (18) months respectively.
- Under PDST-VA activities, the contract for the development work of the patrol road and the rehabilitation of the safety fence around the Douala International Airport was awarded to ROUTD'AF for an amount exclusive of taxes worth 5.9 billion CFA Francs and an execution time limit of sixteen (16) months. Work control and supervision is farmed out to Le COMPETING for an amount of 210 million CFA Francs.
- Also under PDST-VA activities, the construction contract of the safety fence around the Yaoundé International Airport was awarded to M3 CONSTRUCTION for an amount exclusive of taxes of 2.5 billion CFA Francs and a work execution time limit of twelve (12) months.
- CAMEROUN SERVICES ET REALISATIONS, a local enterprise was awarded the contract for the rehabilitation and extension of the Douala 3 City Hall for a total amount worth 1.9 billion CFA francs, inclusive of taxes and a fifteen (15) months execution time limit.
- A four-storey building under construction on the banks of the Ebolowa municipal Lake, abandoned since several years ago by the Ebolowa Urban Community was demolished by the Military Engineering Service on April 2nd, 2022. The Mayor intends to rebuild the new City Hall on the same venue. Who shall bear the responsibilities or be punished following observation of defects on the previous building?
- Since the election on March 2020 of the Yaoundé City Mayor, the Commission on building permit still meets on a discretionary basis in the absence of representatives of related professional orders and trades.
- FRANCE – Pursuant to the report drafted by France Stratégie, the building and public works sector ranks top among sectors that will register a high recruitment rate in this decade. Construction workers and executives shall register an increase in their number by the year 2030. High demands for energy retrofits in housing stocks coupled with infrastructure needs are the reasons driving this trend.
- PRITZKER ARCHITECTURE PRIZE – This year, the highest honour of the profession was, for the first time conferred upon an African: 57-year old Burkina Faso architect, DIEBEDO Francis KERE. The prize acknowledges his sustainable buildings involved in the local economy.
- Professor John EGBE EBAL was elected President of the National Order of Electrical Engineers (ONIGE).
- Paul PONDI BATOUM is, from March 2022, the new President of the National Order of Urban Planners. He replaces Théophile YIMGAING MOYO who passed away last October.
- Elisabeth BORNE, X-PONTS Civil Engineer is, since May 2022, the Prime Minister of the republic of France.
- Xavier Pierre Jean LEGRAND, Civil Engineer, who graduated from HEI Lille, is, since May 2022, the new General Manager of CIMENCAM.
- Jean Raymond Lucien MEVA'A is the new Director of the National Advanced School of Polytechnics, Yaoundé.

Activités & Représentations

● **BATIMAT 2022** - With a view to invite a large number of international visitors to take part in the quest for solutions to low carbon constructions, the BATIMAT, IDEOBAIN and INTERCLIMA exhibitions organised the Low Carbon Tour Construction in twelve European and African countries.

Co-organised with NOCE, the meeting in Cameroon, was held at Hôtel la Falaise on May 24, 2022 and brought together over sixty people including electrical Engineers and architects. The conference which was of a very high technical and intellectual level augurs well for the massive turnout of Cameroonian Engineers to this international event.



- **REGIONAL REPRESENTATION** - On June 1, 2022, the President of the Order signed a decision appointing Engineer Michel WAFFO FOTSO (enrolment number 12-1282) as the regional representative of the Order in the West Region.
 - **INITIAL TRAINING - 2448 !** Is the number of Engineers who received their diplomas during a solemn ceremony organised at the Douala Advanced School of Polytechnics. In one of the addresses made during the event, the speaker made it known that 49.1% of the graduates, spread over seven batches, are jobless.
 - **INITIAL TRAINING** - In compliance with the resolutions made during the last meetings held with the representatives of graduates of Ecole Nationale Supérieure Polytechnique (or former ISS), Maroua, Ecole Nationale Supérieure Polytechnique (or former FGI), Douala, and Saint Jerome Polytechnic (SJP), Douala, a last capacity-building seminar in civil engineering (SRC-GC) shall be organised for students who did not attend or validate the 2019 and 2020 seminars.
- The SRC-GC shall take place from July 12 to 23, 2022 in Douala. It is exclusively intended for graduates of former ISS, former FGI and SJP, for whom it shall serve as an integration seminar, prior to any admission into the Roll of the Order.
- **RECIPROCITY** - While on a visit to Cameroon, Engineer Sonia KABORE, Treasurer of the Burkina Faso National Order of Civil Engineers, pursued discussions on the draft reciprocity agreement between our two Orders that will enable Engineers from Cameroon and Burkina Faso to practice their profession independently in either country.

- Representatives of the Order recently took part in various face-to-face or online meetings, sessions and events:
 - 13th session of the Steering Committee of the Subcontracting and Partnership Exchange (BSTP-CMR)
 - Training workshop in the field of public contracts (MINMAP)
 - Seminar for the implementation of the national framework for Higher Education qualification (MINESUP)
 - Workshop to review and validate the draft Cameroon housing and construction code (MINHDU)
 - Workshop on the strategy for the sustainable development of human resources in the hydro-electricity sector (MINEE)
 - Round table of technical and financial partners for financing the Yaoundé by-pass (MINHDU)
 - Review of the preliminary design of the Etounglinga/Sangmelima real estate operation at Nlongkak/Yaoundé (SIC)
 - Drafting of the Batchenga, Ntui and Yoko land use plans
 - Drafting the Nyanon urbanisation broad concept
 - Commission for the issuance of the Douala City building permit

The proceedings, working documents and reports relating to these meetings are available for consultation at the headquarters of the Order. Comments are expected to beef up the stance of the Order at these various meetings..

Up-coming events

-  ■ **NOCE** – Civil engineering capacity-building seminar – from 12 to 23 July 2022, Douala (CAMEROON)
-  ■ **FIDIC** – GLOBAL INFRASTRUCTURE CONFERENCE 2022 – 11-13 September 2022, Geneva (SWITZERLAND)
-  ■ **BATIMAT 2022** – International Construction Trade Exhibition – 03-06 October 2022, Paris Expo Porte de Versailles (FRANCE)
-  ■ **NOCE** – Elective General Assembly – November 2022, Yaoundé (CAMEROON)

Appointments

- Aubin ESSAIE MOUSSA (Senior Engineer, enrolment number 06-0891), appointed Road Fund Administrator.
- Mathurin ZANGA (enrolment number 06-0891), appointed Chief Transport Specialist at the Kinshasa AfDB country Office.
- Emmanuel SIME LEBOU (enrolment number 03-0558), appointed Technical Adviser No 3 at Aéroports du Cameroun (ADC) and Project Manager for the rehabilitation of the Douala International Airport.
- Jérémie MADJADOU MBAYE (Senior Engineer, enrolment number 02-0440), appointed President of the Procurement Commission for Studies and Road Works at MINTP.
- Maurice NJONTU (enrolment number 05-0807), appointed Acting Deputy Head of the AfDB-WB Unit at MINTP.

Distinctions

- Suzanne MOGUE SOBNGNI ép. NGANE (enrolment number 02-0275), member of the Council of the Order, was conferred the title of Commander of the National Order of Valour.
- Prosper Parfait MBASSI BESSALA (enrolment number 02-0446), was appointed Knight of the National Order of Valour.

Sanctions

The Disciplinary Board of the National Order of Civil Engineers, ruling at first instance at the headquarters of the Order on April 19, 2022, under the chairmanship of Engineer Kizito NGOA, President of the Order, imposed the following sanctions:

- A REPRIMAND to Engineer Marcelin Vidal NGUIMKEU (enrolment number 13-1434), for compromise in the signing of partial bills;
- A SUSPENSION OF ACTIVITIES for a period of six (06) months to Engineer Hermann NOUDEM DONGMO (enrolment number 20-2886), for malpractice and serious breach of the Code of Ethics.

Obituaries

- Leonard ATATINI (enrolment number 18-2270), passed away on March 23, 2022 in Limbe.
- Stanislas BOHBA NYANGONO (enrolment number 06-0904), aged 54, in service at MINTP, passed away on April 18, 2022 in Yaoundé, after a protracted illness.
- Armand KOUAYEP (enrolment number 19-2520), aged 33, in service at NGMA, passed away on May 11, 2022 towards Bibey, in an aircraft crash.
- Alphonse Dieudonné MMAMBA (enrolment number 02-0049), retired from MINTP, passed away on May 29, 2022 in Yaoundé.
- Cyrilaque FOTSO (enrolment number 08-1006), retired from MINTP, passed away on June 11, 2022 in Yaoundé, following a seizure.

New members

Recently enrolled to the Order (Membership & Name)

22-3135	MBOH Helbert SHAYEH
22-3136	SOBGO NGOUAJIO TSOBLEFACK Yvan
22-3137	OLINGA BEDZIGA Parfait Borice
22-3138	AMBE SANGBONG
22-3139	MASSING Samuel Jonathan
22-3140	OKONO Francis Emmanuel
22-3141	BISSOMBY Benoît Guy Donald
22-3142	NOMO Alexis
22-3143	AGHA Esthylene NGWENOH
22-3144	INIDOU GUE Jacqueline Josée (é) NLEND
22-3145	JEUKOUO KOMBOU Christian
22-3146	MBANGA EYOMBWAN Philippe Ivan Orel
22-3147	NIMPA LABOU Christian Stève
22-3148	ONOUGOU DJACA Dominique Franck
22-3149	NGOULOURE RANE Youssouf
22-3150	KAMGA Achille Thierry
22-3151	NGUEKO FONDJO Pamela Christelle
22-3152	DJOBESSIE TAKEDO Eric Ledoux
22-3153	TCHUIKOUA NGANKOU Trésor Florian
22-3154	KETCHOUANG NOUTSWE Pierre Corneille
22-3155	TCHANTCHOU Jean Pierre
22-3157	ZOUNA BABOUMLA Daniel Laurens
22-3158	KWANDJO NZEUSSEU Freddy Steve
22-3159	NLEND DJIKE Myleine Sinthya
22-3160	DONGMO NGUEFACK Cédric
22-3161	DANSANA BOUBA
22-3162	DISSONGO Jean-Junior
22-3163	TCHINDA FEUKENG Willy Verley
22-3164	TCHINDA NAOUSSI Franky Vanele
22-3166	MOFFO Julio Gardel
22-3167	NDEDI TOUBE Julien Joel Landry
22-3168	SHEY Louis NSHANJI
22-3169	TENGUE TAMDJIO Yves Arsène
22-3170	Océanne Rokyse KAPCHIE DOPNA
22-3171	KAMDEM TALOM Emmanuel
22-3174	ZOCK Robert Hermann
22-3175	DJEUPA TCHAMBA Ornella Valdeze
22-3176	MADOM Gisèle Micayelle
22-3177	TATCHA KANKEU Yvan Loïc
22-3179	DONGMO NGUEMO Prince Lionel
22-3181	TEKEM FANCHE Dylane Wilfried
22-3182	MBOULA Benedicte
22-3183	MBASSA A NGON Donald Audrey
22-3184	Valentine SAMNGWA BAUKET
22-3185	CHEFOR MBAFOR WAZIBI
22-3186	MA-APOH Augustine WACHESE
22-3187	NJIASSOM TIENTCHEU Brice Cartel
22-3188	DONGMO TSOPMO Iris Joël
22-3189	FOKOU DONGMENE Marius
22-3190	NGABENA EFFA Gisèle Merveille
22-3191	KENMEUGNE MIGUE Lyne Alexandra
22-3192	NGOMPE NOUGHANI Dolvie Guisella
22-3193	EBASSA AMATALA Yves Rodrigue
22-3194	SIGNE FOGANG Mikhail Richard
22-3195	NGAKO NGUEKAM Hiver Gildas
22-3196	NDOCK NKOUM Steeve Edouard
22-3197	TUETE NDEFO Gaël
22-3198	TSAGUE TEMOTSOP Rita Mabelle

Contacts

National Order of Civil Engineers
Montée Elig Essono - P.O. Box 20822
Yaounde

Tel / Fax : +237 222 21 42 58

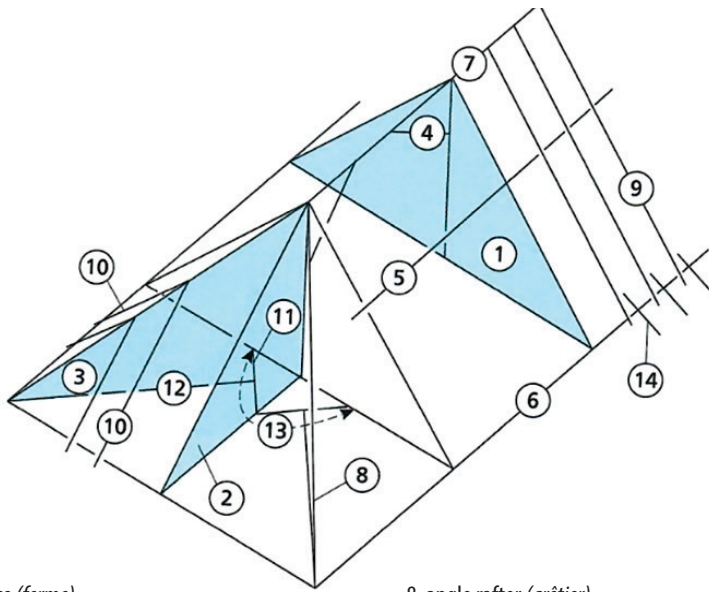
Cell : +237 677 66 10 66 / 655 01 02 03

E-mail : onigc.infos@gmail.com

Website : www.noce.cm

Technical Vocabulary

Components of timber roof
Eléments des combles en charpente



- | | |
|--|---|
| 1. truss (<i>ferme</i>) | 8. angle rafter (<i>arêtier</i>) |
| 2. hipped end half truss (<i>demi-ferme de croupe</i>) | 9. rafter (<i>chevron</i>) |
| 3. hip half truss (<i>demi-ferme d'arêtier</i>) | 10. hip jack (<i>empanon</i>) |
| 4. tie (<i>lien</i>) | 11. gusset (<i>gousset</i>) |
| 5. purlin (<i>panne</i>) | 12. dragon beam (<i>coyer</i>) |
| 6. wall plate (<i>panne sablière</i>) | 13. set of radiating horizontal parts (<i>enrayure</i>) |
| 7. ridge purlin (<i>panne faitière</i>) | 14. sprocket (<i>coyau</i>) |

NOTE

Infrastructure: yet an ongoing project*

Experts have said it. The ordinary citizen experiences it on a daily basis. Communication infrastructure is a key ingredient for the growth of interchanges in general and of trade in particular. Beyond communication as a means to ease the movements of goods and persons, there is equally the need to develop storage, preservation and processing infrastructure with a view to adding value to primary commodities, through secondary, indeed tertiary processing industries. This has been said and confirmed.

That which is of concern here is the rate and the strategy to go way beyond the rhetoric and rather implement the policies. The CEMAC/ECCAS sub-region is very landlocked and initiatives are not performed at the right pace. Cameroon, which is not only a natural hub but equally a gateway to landlocked economies, is not linked to its neighbours by good roads or a railway network. The same situation prevails in the air transport as passengers have to wait for RWANDAIR or ASKY to link up the capitals of the sub-region. The Douala – Kribi railway project towards N'Djamena and Bangui has been at a standstill for the past 20 years and this generation will go by without seeing the launching of this initiative.

These are genuine and prior actions supportive of the African Continental Free-Trade Area to be promoted at a sub-regional level. If Cameroon is indeed connected to its five CEMAC neighbours and to DRC, land, railway, sea and maritime modes of transport with Nigeria will certainly provide access to the vast ECOWAS market. How can the African Continental Free-Trade Area be operational in both the Central and West African sub-region in the absence of such basic infrastructure?

**by Barnabé OKOUDA, CAMERCAP-PARC Coordinator*

Online NOCE certificates

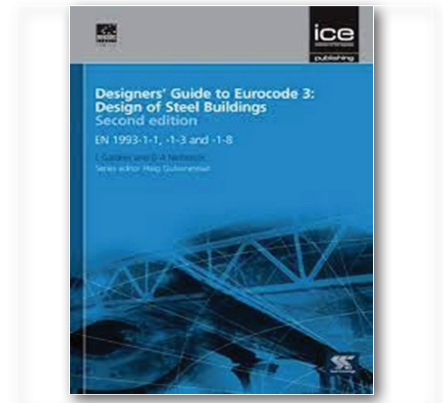
The challenges of dematerialization lie in the modernization of services and the Order could not avoid it. As announced at the 24th General Assembly of the Order, the issuance of certificates of registration with the Order will be done gradually online, through the CLOSER platform, accessible via www.closer.cm.

This dematerialization will ensure the transparency, security and traceability of certificates in circulation on national territory, issued for personal use, to meet the requirements of contracts and calls for tenders, or even more. It will allow applicants to carry out all the necessary steps to obtain them from their place of residence.

For any information on the eligibility of users and the use of this tool, please contact the General Secretariat of the Order.

Book

to be consulted at the Document Resource Centre of the Order



Designers' Guide to Eurocode 3: Design of Steel Buildings

(Leroy Gardner, David A. Nethercot and Haig Gulvanessian, ICE Edition, 2011)

This series of Designers' Guides to the Eurocodes provides comprehensive guidance in the form of design aids, indications for the most convenient design procedures and worked examples. The books also include background information to aid the designer in understanding the reasoning behind and the objectives of the codes. All of the individual guides work in conjunction with the Designers' Guide to EN1990: Basis of Structural Design. Valuable insight is given into Eurocode 6, the code that addresses unreinforced and reinforced masonry structures, where reinforcement is added to provide ductility, strength or improve serviceability, and provides the structural rules for designing a composite material comprising masonry units and mortar. This detailed guide complements the Eurocode standard, dealing with the various sub-sections of EN 1996-1-1, and explaining areas where change has overtaken the traditional approach used in the previous British Standards. The UK National Annexes for EN 1996-1-1 are also covered.

This guide is essential reading for civil and structural Engineers, code-drafting committees, clients, structural-design students, public authorities in fact, everyone who will be affected by the Eurocodes.

Stamp of the Engineer

Since March 1, 2022, all documents, notes or plans emanating from a Civil Engineer must, under penalty of nullity, be stamped with the type stamp of the said Engineer, which includes, in addition to the year 2022, his name and NOCE registration number.

As a reminder, this measure enacted by the public authorities for the protection of the public, aims, beyond the informative aspect, to guarantee that the acts to be signed by an Engineer are only signed by people having this quality.

In the event of forgery and use of false stamps, the Order will immediately initiate disciplinary and/or legal proceedings against the incriminated actors./-