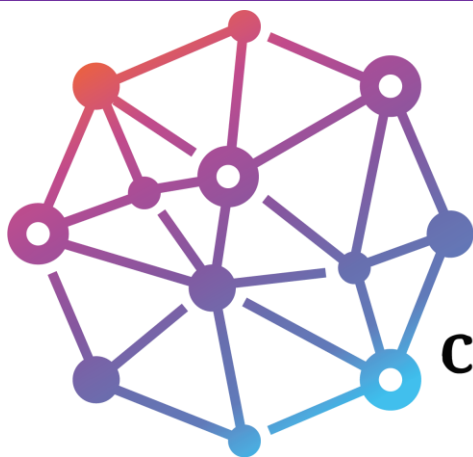




CACers

Composites and Advanced Ceramics Society

Scientific Programme

CGCA

International Conference on
Ceramics and Geomaterials
in Central Africa

Yaounde | Cameroon | Nov 28 – Dec 01, 2023



Université
de Limoges

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SCIENTIFIC AND TECHNICAL PROGRAMME

Tuesday 28, November 2023, AM - UYI

8.00	Registration		
9.00	Opening ceremony		
10.00	Plenary lecture Prof. Emeritus BLANCHART Philippe <i>Decarbonation of the ceramic industry</i>		
10.50	Coffee break		

	ROOM 1 (Salle Multimédia)	ROOM 2 (Amphi S01)	ROOM 3 (Salle R105)
	Session ST3a Sintering and consolidation mechanisms	Session ST1a Geomaterials prospections and characterization	Session ST4a Characterization, Structure Properties correlation
11:10	SEREWANE DERAMNE Rosellyne Valorization of clays of Central African Republic: optimization of formulations regarding the properties of use and the sintering behavior	- Keynote (01) NKOUMBOU Charles Clay materials for ceramics in Cameroon: the state-of-the-art	- Keynote (02) / YONGUE Rose Latérites et sols latéritiques : géoressources de la zone intertropicale
11:40	GUILLEMIN Fleur Investigation of the influence of iron concentration onto the sintering behavior of phyllosilicate	KANKAO OUMLA Oumar Physicochemical, mineralogical and ceramic properties of clay materials from the eastern part of the Douala sub-basin, Cameroon	TATANG Herve Barye Complexes d'intercalation de quelques kaolinites désordonnées et d'urée
12:00	NTCHAYI TANKEU Solange Effect of bauxite content and temperature on the properties of anode baking furnace refractories	NGONO MBENTI EMVANA Michèle Stella Evaluation de l'aptitude à la confection des briques de terre des argiles latéritiques et des matériaux de termitières en zone de plateau (Adamaoua-Cameroun)	SUFFEU TALLA Thiery Blondel Évaluation géotechnique des graveleux latéritiques de Baleng (Ouest-Cameroun) comme couche de chaussées routières
12:20	TCHAKOUNTE MBAKOP Theophile Enhancing the crystallization phenomena and strength of porcelain stoneware: the role of CaO	MOMDJO TOKO Verdiane Potentialités des formations superficielles de Maroua (extrême-nord Cameroun) pour la production des matériaux de construction	SONTIA METEKONG Jordan Valdès Microstructure and mechanical properties of laterite-based geopolymers and OPC concretes: Influence of the type of aggregates
12:40	SAWADOGO Youssouf Study of behavior in the chemicals attack of a porcelain formulated from local raw materials from Burkina Faso	MAKHALY Ba Geotechnical properties of sand-asphalt for use in road base layer instead of conventional materials	ZOUNRANA Jean Baptiste Caractérisation des phosphates du gisement de Kodjari au Burkina Faso pour une utilisation en agriculture
13.00	Lunch		

Tuesday 28, November 2023, PM - UYI

14.00	Plenary lecture Prof. William G. FAHRENHOLTZ <i>Ultra-High Temperature Ceramics for Energy applications</i>		
	Session ST3b Sintering and consolidation mechanisms	Session ST1b Geomaterials prospections and characterization	Session ST4b Characterization, Structure Properties correlation
14.45	- Keynote (03) / BI IRIÉ GOURE Hervé Influence des tourteaux de karité sur les propriétés mécanique, hydrique et thermique de blocs de terre argileuse stabilisés avec 5% de ciment	- Keynote (04) BOULINGUI Jean-Eudes Contribution aux Enseignements des Géomatériaux dans les Sciences de la Terre : Cas des Argiles de Libreville au Gabon	FOMEKONG Roussin Lontio Heterostructuring in modern ceramic materials: A good strategy for improving their energy conversion properties.
15:15	NJINDAM Oumar Ramadan Porcelain stoneware tiles based on clays mixture and waste glass powder: Effect of soaking time	- Keynote (05) EPOSSI NTAH Zoila Luz Étude archéométrique des céramiques issues des sites archéologiques du Cameroun : technologie et provenance	RIYAP Hamed Ismaïlla Compressive Strengths and Microstructural Properties of Geopolymeric Materials Arising from the Addition of Semi-Crystalline Alumina to Silica-rich Aluminosilicate Sources
15:35	KIEUFACK Gervaise Effects of feldspar addition on ceramic properties of alluvial clays from Bamendou-Balessing (West Cameroon)	EBONGUE Milong Stabilité thermique des polymères inorganiques phosphates obtenus à base de scories volcaniques	MOUNTAPMBEME KOUOTOU Patrick Investigation of the effect of thermal annealing of Ni-cobaltite nanoparticles on their structure, electronic properties and performance as catalysts for the total oxidation of dimethyl ether
15:55	MOUDIO NJAWA A. M. Influence of CaO/Al ₂ O ₃ molar ratio of synthetic calcium aluminate hydrates on the microstructural properties and compressive strengths of metakaolin-based geopolymer cements	NANA Achile Romeo Design and characterization of Cameroonian pegmatite-calcined clay binary mortars via geopolymerization	SAÏDJO Modélisation du comportement non linéaire des fibres végétales par le spectre de relaxation
16.15	Afternoon refreshments		
16.35		TAMBA FOKO Calos Design of a geotechnical database on lateritic soils used in road construction in the intertropical zone by GIS processing techniques: the case of lateritic graveled soils of the north of Mount Bangou, West Cameroon	KOUADIO Lucas Moses Characterization of Clay Materials from Ivory Coast for Their Use as Adsorbents for Wastewater Treatment
16:55		KESSOUM ADAMOU Jean Marc Mineralogical, geochemical, and geotechnical features of lateritic soils from termite mounds in two contrasting savannah areas (Central Cameroon) as raw materials for brick making.	SEUMOU EVA L. Pore Analysis and the Behavior of the Unreacted Metakaolin Particles in the Networks of Geopolymer Cements Using metakaolins from kaolinitic and Halloysitic Clays
17.35	Poster Session 1 Industrial stands		
18.45	Welcome cocktail at UYI		

Wednesday 29, November 2023, AM - UYI

	ROOM 1 (Salle Multimédia)	ROOM 2 (Amphi S01)	ROOM 3 (Salle R105)
8 :00	Plenary lecture Prof. BAUDIN Carmen <i>Tricalcium phosphate-diopside ceramics for bone regeneration</i>		
	ST2a Ceramics and geomaterials processing	Session ST6a Waste valorization and recycling	Session ST5a Low carbon materials, Environmentally Friendly Materials and Sustainability
8 :40	- Keynote (06) HOUIVET David Powder mixing and grinding processes with controlled viscosity	- Keynote (07) KENNE DEDZO Gustave Clay minerals modification and environmental applications	- Keynote (08) / BILLONG Ndigui Maturation des résultats de recherche et d'innovation sur les céramiques et ciments écologiques, une opportunité pour leur valorisation économique
9 :10	MBAYE Abdou Mineralogical and physico-chemical characterizations of clay from Allou Kagne (Senegal)	TCHUISSEU MINKLA Nathalie Laure Formulation by a composite plane of a membrane from the combination of sand, plastic and porogen: application to the retention of water from septic tanks	KAZE Rodrigue Cyriaque Investigation of the calcined halloysite content on reactivity and rheological behavior of Limestone Calcined Clay Cement (LC3)
9:30	MILLOGO Younoussa Raw earth bricks amended with cement and kenaf fibres: microstructure and physico-mechanical properties	MOUMOUNI WAGE Abdoul Razak Traitement des lixiviats par les graines de Moringa oleifera: cas de la décharge de Kouba (Niamey-Niger)	ABIR Fatima-Zahra Effect of the addition of iron oxide on the formation and microstructure of ye'elimite
9 :50	BOURRET Julie Efficient fragmentation of mineral raw materials - impact of experimental parameters	TCHAKOUTE KOUAMO Herve Preparation of low-cost nano and microcomposites from chicken eggshell, nano-silica and rice husk ash and their utilizations as additives for producing geopolymer materials	NOUEMSI SOUBGUI Epiphane Plant fiber-inorganic binder based composite board and their correlation with building insulation properties: state-of-the art and perspectives
10 :10	NDZANA Emma Juliette Augustine Effect of an organic compared with a mineral fluxing agent on the characteristics of kaolinite clay-based stoneware ceramics	NDONGO EBONGUE Louise Effet du remplacement partiel des scories volcaniques par les résidus de poudre de fer sur les propriétés des polymères inorganiques phosphatés.	EL KHOMSI Anass Formulation of a geopolymer grout from Callovo-Oxfordian argillite for radioactive waste disposal
10 : 30	SAWADOGO Moustapha Valorisation de trois matières premières dans la formulation de matériaux réfractaires		BILLONG Ndigui Low-carbon materials, the case of compressed earth blocks stabilized with optimized lime-calcined clay cement (OLC2)
10:50	Coffee break		
	Session ST2b Ceramics and geomaterials processing Session chairs: HOUIVET David	Session ST6b Waste valorization and recycling Session chairs :	Session ST5b Low carbon materials, Environmentally Friendly Materials and Sustainability Session chairs: BILLONG Ndigui
11 :10	- Keynote (09) / PAGNOUX Cécile Formulation of mixed emulsion/suspension systems for the preparation of ceramics with architected porosity	MALBILA Etienne Analyse multicritère des composants des pavés écologiques à base de déchets plastiques et de verre, et de renforts granulaires	- Keynote (10) / JOUDA Jean Bosco Opportunities for metabolomics-based molecular networking synthesis of metal nanoparticles from medicinal plants and microorganisms
11 :40	BOUTIANALA Michèle Optimisation des paramètres de synthèse d'un composite géopolymère/oxyde fer : application à la détection des ions Pb ²⁺ en solution aqueuse	LAMAH Labilé Utilisation des déchets d'équipements électriques et électroniques dans la confection des mortiers : Le cas des verres	TCHANGA Baudouin Physical properties and microstructures of poly(phospho-siloxo) and poly(sialate-siloxo) networks from two metakaolins)
12:00	ZERBO Lamine Preparation and characterization of foamed concrete using a foaming agent and local mineral resources from Burkina Faso	GARBA LABO Mahaman Nazirou Caractérisation de cendre de biomasse agricole : perspective de valorisation des ressources locales dans les matériaux de construction	RUDMIN Maxim Synthesis, characterization, and agricultural application of glauconite-ammonium dihydrogen phosphate nanocomposites: advancing environmentally friendly fertilizers
12 :20	KENNE TAZUNE Francklin Investigation of the properties of metakaolin-based geopolymer materials using ferrisilicates as additives synthesized in sodium hydroxide solution or distilled water	NYONDA YANZE Annick Development of calcium sulfoaluminate cement from rich-alumina bauxite and marble wastes: physico-chemical and microstructural characterization	TCHIO Julson aymard Design and characterization of iron-calcium-aluminium-silicate-hydrate at low-temperature as a binder for precursor stabilization
12:40	Lunch		

Wednesday 29, November 2023, PM - UYI

	Session ST7a Porous ceramics Session chairs:	Session ST6c Waste valorization and recycling & ST8a Properties of use and Industrial applications	Session ST2c Ceramics and geomaterials processing
14:00	- Keynote (11) / LETAH NZOUEBET Wilfried A. Waste materials for the removal of emerging contaminants in wastewater: a viable alternative for developing countries	Keynote (12) / NJOYA André Clay minerals: from the earth to the table	DIEUHOUE Cedric M. Influence of alumina on the compressive strengths and microstructural properties of the acid-based geopolymers from calcined indurated laterite and metakaolin -
14:30	MVOGO Brice Armel Rhéologie des pâtes pour impression 3D de biocomposites à matrice plâtre renforcés de fibres courtes état de l'art et perspectives	NKENGUE Pierre Lionel Characterization of cimentitious composite materials based on calcined clay activated by silicate from rice husk ash and Ingessil silicate-activator: Sodium hydroxide (NaOH)	NDIORO MAGON Anna Christa Trona as local source of alkali in the production of ecological binder
14:50	KOUOTOU MFOMBOUM Yacouba Effect of palm kernel shells and mango seed coats in the kaolinite clay based ceramic membranes: Application for the wastewater treatment from breweries in Cameroon	DONFACK NANFACK Sylvie Léa Proposition des éléments de décoration pour architecture d'intérieur à partir des géoressources locales et des éléments du patrimoine culturel immatériel : exemple des mosaïques murales et des pots de fleur	NOUPING FEKOUA Joëlle Nadia Effects of curing cycles on developing strength and microstructure of goethite-rich aluminosilicate (corroded laterite) based geopolymer composites
15:10	NJUHOU Saliou Membrane céramique à base de kaolin et de balle de riz : Optimisation par la méthodologie de surface de réponse (MSR) et de l'analyse de l'interdépendance des réponses	SOUAIBOU Mechanical Properties and chemical stability of Roof Tiles: a mixture of Cathode-Ray Tube (CRT) waste glass and Allophane rich soil fired at different temperatures.	NGNINTEDEM VOFO Dimace Lionel Effects of iron minerals on the compressive strengths and microstructural properties of metakaolin-based geopolymer materials
15:30	OUEDRAOGO LAREBA Adélaïde Caractérisation de quelques propriétés thermo-physiques et mécaniques du béton moussé au Burkina Faso		
15:50	Afternoon refreshments		
	Session ST7b Porous ceramics Session chairs: LETAH NZOUEBET Wilfried A.	Session ST8b Properties of use and Industrial applications Session chairs: NJOYA André	Session ST2d Ceramics and geomaterials processing Session chairs:
16:10	LEKUNA DUNA Linda Performances of laterite-based geopolymer matrix filters on the Bacteriological filtration of contaminated groundwater and microstructure	ABO Tatiane Marina Géopolymère et composites avec les fibres de bananier	THIEBLESSON Lydie Marcelle Thermal behavior and fire resistance of material based on paper granule, starch and clay mortar
16:30	MOUNTOUMNJOU Olivier Ceramic membranes based on kaolinite, bentonite clays and limestone for bacteria removal	SALL Mamoudou Characterization of fine sewage sludge ash (FSSA) and coal fly ash (CFA) for Reuse as construction material	GANON François Formulation d'un éco-ciment (ciment pouzzolanique) à base d'une argile locale
16:50	DJOMOU DJONGA Paul Microfiltration ceramic membranes from Cameroon in Allophane rich soils and husked rice: physico-mechanical, chemical characterization and application to the treatment of drinking water	NGOME NKOME Elvis Historizing the transformation of solid plastic waste into bricks: evidence from field studies in Cameroon	GANSONRE Yassia Variability, classification and mechanical properties of lateritic soils in Burkina Faso
17:10	Poster Session 2 Industrial stands		
18:00	General Assembly of the CACerS Cocktail		

Thursday 30, November 2023 - UYI

	ROOM 1 (Salle Multimédia)	ROOM 2 (Amphi S01)	ROOM 3 (Salle R105)
8.30	Chairman's additional remarks		
8.50	Plenary lecture Prof. NANA ENGO Artificial Intelligence: state of the art, applications, and Impact		
	Session ST9a Modelling and Artificial intelligence for materials science	Session ST9b Modelling and Artificial intelligence for materials science	Session ST8c Properties of use and Industrial applications
9:40	- Keynote (13) / TSOPZE Norbert Artificial intelligence methods and applications	- Keynote (14) IMAD Abdellatif	KANKAO OUMLA Oumar Mineralogical, geochemical and adsorptive properties of clay materials from Japoma and its surroundings, Douala Cameroon
10:10	EL KHESSAIMI Yassine New insights into the application of machine learning in predicting properties of calcined clay cements	MOUNTAPBEME Ibrahim Cherif Elaboration and characterization of kaolinitic clays and cassava peel-based ceramic membranes using simplex centroid design	NGU YERIMA Elton A State-of-the-Art Review on the Evolution of Geopolymer Application in Water and Wastewater Treatment
10:30	TAGNE FONKOU Ervert Applicabilité des réseaux de neurones pour la prédiction de la résistance mécanique du béton haute pression base sur les facteurs optimaux	TCHENEGHON MOTCHEYO Herman Automatic selection of attributes based on porosity-hygroscopy correlations of geopolymer matrix	
10:50	Coffee break		
	Session ST9c Modelling and Artificial intelligence for materials science	Session ST9d Modelling and Artificial intelligence for materials science	Session ST8d Properties of use and Industrial applications
11:10	- Keynote (15) / David Hughes Circular approaches for waste based geopolymer feedstocks	KAMENI Jaurès S. H Optimization of information retrieval systems for learning contexts	OWONO FOU DA Achilles François De la barbotine d'argile du Nyong à la création des céramiques pour revêtement des murs ; regard sur l'état de l'industrie céramique camerounaise ?
11:40	ANANJOU TSAFACK Ornéla Stéla Ensemble learning for predicting the compressive strength of high-performance concretes	TCHIMOÉ KEMLE Symphorien Evaluation of the physico-chemical properties of a ferrous geopolymer using molecular dynamics: amorphous silicate construction and analysis	TSOPBOU NGUEAGNI Patrick Preparation of Simple and Cation-Doped Bovine-Derived Hydroxyapatite Thin-Films by Radio-Frequency Magnetron Sputtering for Antimicrobial Applications
12:00	DJADJEU MENKAM Rosta franck Optimization of concrete performance using the particle packing concept based on the modified empirical mathematical model of Andreasen and Andersen	KEMDJIO LATIEU Steve Lionet Interprétation digitale des séquences de substitution de l'Aluminium par le Fer dans la formation des latérites : dynamique moléculaire de leur activation alcaline	DIBANDJO NDANKOU Charnella Stevine Development of activated carbon-chitosan beads: effective removal of Congo red in aqueous solution
12:20	NFONGOHI Thiophine Fenjeh Optimization of geopolymer concrete produced from laterite and pozzolan using the simplex centroid mixture design method	MBIBU S. Contributions to the diagnosis of engine failures by vibration analysis using artificial intelligence	Yao Yao Jules Georesources et développement durable en Afrique d'hier à aujourd'hui : cette combinaison est-elle possible ?
12.40	Lunch		
14:00	- Keynote (16) / ROSSIGNOL Fabrice Future prospects in advanced ceramics manufacturing		
14:30	Debate / Round table on the topic "Artificial intelligence, Modelling and Circular Economy in material science in Africa". Moderator: ROSSIGNOL Fabrice		
16.20	Concluding Recommendations		
16.30	Chairman's closing		
19.30	Gala Dinner and Awards at the "Institut Français" of Cameroon, Yaounde		

Friday 1, December 2023 – Visits: MIPROMALO and Yaounde

9.00	Welcome from the Director of MIPROMALO		
9.15	Visit of Mipromalo	Practical workshop 1	Practical workshop 2
11.00	Coffee break		
11.20	Sightseeing of Yaoundé and visits (historical monuments, museum, artisanal complex...)		
12.30	Lunch		
14.00	Sightseeing of Yaoundé and visits (historical monuments, museum, artisanal complex...)		
16.00	Afternoon refreshments		
18.00	Back to the pick-up point		

Poster's order

ST1 - Geomaterials prospections and characterization	
P1	BANZOUZI SAMBA Vivien Igor Amélioration des propriétés technologiques et mécaniques d'une argile moins plastique (argile de Ntokou) à partir d'une argile très plastique (argile de Dongou), extraites en République du Congo
P2	AMANA AMBIANA Christian Dieudonné Etude de la stabilisation des sols à l'aide de la chaux et du ciment : cas de la zone de pk 21
P3	MAKITA MABAKA Edwin Audrey Les Ressources Minérales à Talc de la Dola au Gabon
P4	HELLA KOMI Edoudji Etude sur la stabilisation des sols avec la chaux : application aux sols sédimentaires
P5	NOKO MPAH Bris Martial Study of the effects of artificial pozzolan obtained from rice husk ash on the hydraulic properties of Portland cement
P6	NJIMBOUM Aboubakar Sidiki Geotechnical, physico-chemical and mineralogical characteristics of vertisols from the Far North (Cameroon): Potential valorisation in the elaboration of low-carbon stabilized materials
P7	MOONGON OBAM Irma Bertha Physico-chemical, mineralogical and thermal characteristics of raw clay materials used by local artisans to produce fired clay bricks in Sudano-Sahelian area of Cameroon
P8	HELL BISSAY Joseph Characterization of a geopolymer based on calcined laterite substituted for oyster shell powder
P9	NGWEM BAYILA Blaise Characterization of a metakaolin-based geopolymer mortar and marble reinforced with plant fibers from Nero Peltis Accuminata Djik
ST2 - Ceramics and geomaterials processing	
P10	EL KHOMSI Anass Geopolymers for antennas and absorbing materials application
P11	N'CHO Wilfried Cyrille Influence of different metakaolins mixture on the geopolymers properties
P12	SONG Serge Jean Benoit Characterization of a geopolymer based on calcined shell substituted for oyster shell powder
ST4 - Characterization, Structure Properties correlation	
P13	NJUHOU Saliou Influence de la crystallinite et des fractions argileuses sur le mécanisme de déshydroxylation sous gradient thermique de deux kaolinites faiblement cristallisées
P14	EPOSSI NTAH - KROLL Zoila Luz Mineralogical and petrographic study on archaeological pipes from Nditam/Cameroon
P15	EPOSSI NTAH - KROLL Zoila Luz Etude comparative de la céramique du site de <i>Botko</i> (Littoral Cameroun) du 08e au 11e siècle AD : analyses macroscopique et microscopique

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