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BIOGRAPHICAL SKETCH 2021

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Oscar Jaime Restrepo Baena obtained the degree of Mining and Metallurgy Engineer in the School of Mines at Universidad Nacional de Colombia, Medellín.

He completed the MSc. in Environmental Impact Assessment and the Ph.D. in Metallurgy and Materials at the Universidad de Oviedo, Spain. He completed a post-doctoral stay in the R & D laboratory of the Nubiola Company in Barcelona, Spain, where he also served as director of Research and Development.

He is linked as a Professor in the Department of Materials and Minerals of the School of Mines at Universidad Nacional de Colombia and is a member of the Minerals Institute - CIMEX, where he participates in research projects and he is the head of research in the area of Extractive Metallurgy: Physical-chemical processes associated with the metallurgical industry and coordinator of the Sustainability group in extractive industries. He is part of the Cement and Building Materials Group or Research.

He is the author of numerous scientific and academic articles in the area of extractive metallurgy, sustainability in mining and ceramic materials published in high impact international journals, and he has been director of research projects developed with national and international funding.

He has directed doctoral, masters and undergraduate thesis carried out in the School of Mines. In the administrative area he has been Editor in chief of Dyna- Colombia Journal. It is part of scientific societies such as SME / TMS / SOMP / ACM / AIST / Riprexs / SAI.

He is the President of the Society of Mining Professors 2019-2021

Publications 2020-2021

- *G. Martinez, OJ Restrepo-Baena, M Veiga.* The Myth of Gravity Concentration to Eliminate Mercury Use in Artisanal Gold Mining *The Extractive Industries and Society* . January 2021 *In Press*.
- *Natalia Betancur-Granados, Jarol E. Molina, Herbert Pollmann, Jorge I. Tobon, Oscar Jaime Restrepo-Baena.* Influence of metallic precursors in the mineralogy and reactivity of belite cement clinkers obtained by flame spray pyrolysis. *Materials Today Communications*, <https://doi.org/10.1016/j.mtcomm.2020.101917> Available online 26 November 2020, 101917.
- *A. Garces-Granda, G.T. Lapidus, O.J. Restrepo-Baena.* Effect of a thermal pretreatment on dissolution kinetics of a limonitic laterite ore in chloride media. *Hydrometallurgy* 196 (2020) 105428. <https://doi.org/10.1016/j.hydromet.2020.105428>
- *Santiago Arango-Aramburo, Ricardo Smith, Patricia Jaramillo, Yris Olaya, Adrian Saldarriaga, Oscar J. Restrepo, Yuly Arboleda, Carla Rua, Sebastian Bernal, Pablo E. Londono, Erik R. Larsen.* In Search of a Future for Mining: Participative Scenarios for Colombia. *JOURNAL OF SUSTAINABLE MINING* 2020; Volume 19 Issue 2 Article 2 pp 72-87. Available at: <https://doi.org/10.46873/2300-3960.1007>
- *Oscar Jaime Restrepo Baena, Gustavo Aristizábal, Mateo S. Pimentel, Cristian A. Flórez and Carlos E Argumedo.* Waste Management and the Elimination of Mercury in Tailings from Artisanal and Small-Scale Gold Mining in the Andes Municipality of Antioquia, Colombia. *Mine Water and the Environment*, 2020.
- *Oscar Jaime Restrepo Baena.* El recuerdo de una influencia vital. Jorge Alberto Naranjo Mesa, la puerta de acceso al despertar de la conciencia. *Revista de Extensión Cultural*. No 64. Universidad Nacional de Colombia. Sede Medellín. Junio de 2020. Pp. 144-149.
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aggregates plant: evaluation as a supplementary cementitious material. *Int J Appl Ceram Technol.* 2020;00:1–12. The American Ceramic Society DOI: 10.1111/ijac.13597

- *Elizabeth A. Holley, Nicole M. Smith, Jeison Alejandro Delgado Jimenez, Isabel Casasbuenas Cabezas, Oscar Jaime Restrepo-Baena*. Socio-technical context of the interactions between large-scale and small-scale mining in Marmato, Colombia. *Resources Policy* 67 (2020) 101696. <https://doi.org/10.1016/j.resourpol.2020.101696>
- *Jorge I. Tobón, Oscar Mendoza Reales, Oscar Jaime Restrepo-Baena, María Victoria Borrachero and Jordi Payá*. Effect of different high surface area silicas on the rheology of cement paste. *Materiales de Construcción* Vol. 70, Issue 340, October–December 2020, e231 ISSN-L: 0465-2746 <https://doi.org/10.3989/mc.2020.15719>
- *Edgar Andrés Chavarriaga Miranda, Alex Lopera, Tiago Wermuth, Sabrina Arcaro, Adrián Gómez, Oscar Restrepo, Javier Alarcon, Carlos Bergmann*. Synthesis by solution combustion of inorganic blue pigments $MFe_2(P_2O_7)_2$: influence of the cation M (Zn^{2+} , Co^{2+} , Cu^{2+} , and Mg^{2+}) on their optical properties. *Solid State Sciences* Volume 103, May 2020, 106180. DOI: <https://doi.org/10.1016/j.solidstatesciences.2020.106180>
- *Dairo E. Chaverra, Oscar J. Restrepo-Baena, María C. Ruiz*. Cobalt Extraction from Sulfate/Chloride Media with Trioctyl(alkyl)phosphonium Chloride Ionic Liquids. *ACS Omega* 2020 *ACS Omega* **2020** 5 (11), 5643-5650. Publication Date: March 13, 2020. <https://doi.org/10.1021/acsomega.9b03266>. Copyright © 2020 American Chemical Society