Arie Wardhono . <ariewardhono@unesa.ac.id>

[ABS-181] Abstract Submitted to AASEC 2018

1 message

AASEC 2018 <aasec2018.automail@upiconf.org> Thu, Mar 22, 2018 at 5:41 PM
Reply-To: aasec@upi.edu
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Dear Dr. Arie Wardhono,

We have received the submission of your abstract:

Abstract ID:
ABS-181
Please use this "Abstract ID" in all correspondence (instead of abstract title).

Title:
Enhancing the Strength of Volcanic Mud-based Class F Fly Ash Geopolymer Specimen by Limestone Inclusion

Authors:
Arie Wardhono (a*), Nanik Estidarsani (b), Ninik Wahju Hidajati (b)

Institutions:
a) Department of Civil Engineering, Universitas Negeri Surabaya
*ariewardhono@unesa.ac.id

b) Department of Civil Engineering, Universitas Negeri Surabaya

Content:
Volcanic mudflow in East Java Indonesia has brought negative impacts in the area around the mudflow. The area of mud affected areas is estimated to reach approximately 650 hectares. The contents of mud are predominantly silicate, aluminate and ferrite in crystalline form, which are the primary materials that forming geopolymer matrix specimen.
The aim of this research is to identify the effect of limestone addition on strength properties of volcanic mud-based class F fly ash geopolymer mortar. The volcano mud was obtained from Sidoarjo mud in East Java Indonesia. The alkaline activator solution was prepared by mixing 10 Molar sodium hydroxide with sodium silicate. The ratio of sodium hydroxide to sodium silicate was 0.67. The compressive strength test was carried out at the age of 28 days in accordance with ASTM standard. The specimens were cured at room temperature.
The results show that the addition of 30% limestone in volcanic mud-based class F fly ash geopolymer specimen gives the highest strength at 28 days. Further addition of limestone tends to reduce the strength. This might attribute to the decrease of silicate and aluminate contents as the matrix element in geopolymer specimen along with the limestone addition.

Keywords:
Geopolymer; Class F fly ash; Volcanic mud; Limestone; Strength properties

Topic:
EN-03 Civil Engineering

Presenter:
Arie Wardhono

Type:
Oral Presentation

The Letter of Acceptance (LoA) and Letter of Invitation (LoI) can be downloaded directly from your account, once your abstract is accepted to be presented.

Thank you.

Best Regards,
AASEC 2018 Organizing Committee
Website : http://aasec.conference.upi.edu/2018
Email: aasec@upi.edu

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Arie Wardhono . <ariewardhono@unesa.ac.id>

[ABS-181 FULL_PAPER] File Submitted to AASEC 2018

1 message

AASEC 2018 <aasec.automail@upiconf.org> Sat, May 5, 2018 at 7:23 AM
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Dear Dr. Arie Wardhono,

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File: http://aasec2018.upiconf.org/kfz/files/full_paper_abs-181_8454531352.doc

Abstract ID:
ABS-181

Title:
Enhancing the Strength of Volcanic Mud-based Class F Fly Ash Geopolymer Specimen by Limestone Inclusion

Authors:
Arie Wardhono (a*), Nanik Estidarsani (b), Ninik Wahju Hidajati (b)

Type:
full_paper

Topic:
EN-03 Civil Engineering

Presenter:
Arie Wardhono

Thank you very much.

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Email: aasec@upi.edu

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Arie Wardhono . <ariewardhono@unesa.ac.id>

[ABS-181 REVISED_PAPER] File Submitted to AASEC 2018

1 message

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Abstract ID:
ABS-181

Title:
Enhancing the Strength of Volcanic Mud-based Class F Fly Ash Geopolymer Specimen by Limestone Inclusion

Authors:
Arie Wardhono (a*), Nanik Estidarsani (b), Ninik Wahju Hidajati (b)

Type:
revised_paper

Topic:
EN-03 Civil Engineering

Presenter:
Arie Wardhono

Thank you very much.

Best Regards,
AASEC 2018 Organizing Committee
Website : http://aasec.conference.upi.edu/2018
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Arie Wardhono . <ariewardhono@unesa.ac.id>

Announcement of AASEC 2018 Proceedings Publication and AASEC 2019 Information

1 message

Annual Applied Science Engineering Conference <aasec@upi.edu> Thu, Dec 6, 2018 at 11:11 AM
Bcc: ariewardhono@unesa.ac.id

Dear author(s),

We gladly inform you that proceedings of AASEC 2018 has been published in MATEC and IOP. For more detailed information, please see the links below:

MATEC: https://www.matec-conferences.org/articles/matecconf/abs/2018/56/contents/contents.html

IOP: http://iopscience.iop.org/issue/1757-899X/434/1

On behalf of AASEC 2018 committee, we would express our most sincere gratitude to all co-hosts and authors. We would also like to announce that next year's AASEC will be conducted in Bali on April 24, 2019. We do hope to see you there. Thank you.

Warmest regards,
AASEC 2018