



**STAFF HANDBOOK**

Name	Selly Feranie				
Position	Earth Science ( <i>Teaching area and designation</i> )				
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>		
	<b>Associate Professor</b>	<b>Universitas Pendidikan Indonesia</b>	<b>2017</b>		
	<i>Habilitation [German post-doctoral qualification] (Subject)</i>	<i>institution</i>	<i>Year</i>		
	<i>Doctorate (Subject)</i>	<i>Institution</i>	<i>Year</i>		
	<b>Physics</b>	<b>Institut Teknologi Bandung</b>	<b>2006-2011</b>		
	<i>Master (Subject)</i>	<i>Institution</i>	<i>Year</i>		
	<b>Physics</b>	<b>Institut Teknologi Bandung</b>	<b>2000-2002</b>		
	<i>Undergraduate degree (subject)</i>	<i>Institution</i>	<i>Year</i>		
	<b>Physics Education</b>	<b>Universitas Pendidikan Indonesia</b>	<b>1993-1997</b>		
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>		
	<b>Lecturer</b>	<b>Dean</b>	<b>1999-Now</b>		
Research and development projects over the last 5 years	<i>Name of project or research focus</i>				
	<i>Period and any other information</i>				
	<i>Partners, if applicable</i>				
	<i>Amount of financing</i>				
				<b>Financing</b>	
	<b>No</b>	<b>Year</b>	<b>Title of Research Project</b>	<b>Sources</b>	<b>Amount (Million Rp)</b>
	1	2021 - 2022	Application of Electrical Resistivity Tomography dan Ground Penetrating Radar to identify failure surface and landslide coverage area using Smoothed Particle Hydrodynamics (SPH)	Ministry of Research and Technology of the Republic of Indonesia	90 (2021)
	2	2019 - 2021	Development of interactive online test virtual laboratory based to measure Indonesian student's 21 <sup>st</sup> century skills	Ministry of Research and Technology of the Republic of Indonesia	182(2021) 123(2019)
	3	2019	The effect of temperature and uniaxial pressure on 3D fracture development on geothermal rocks and its implication on risk factor and production	Ministry of Research and Technology of the Republic of Indonesia	65(2019)
Industry collaborations over the last 5 years	<i>Project title</i>				
	<i>Partners</i>				
Patents and proprietary	<b>No.</b>	<b>Title</b>	<b>Type</b>	<b>Year</b>	



rights	1	Computation program of modelling 3D Geology structure based on contour data	Proprietary rights	2020																								
	2	vocal visualizer from local material as props of science learning source for Indonesian junior high school students	Proprietary rights	2020																								
	3	Kinematics particle Android application as interactive learning source	Proprietary rights	2020																								
	4	Harmonic motion Android application as interactive learning source	Proprietary rights	2020																								
	5	3D BOX COUNTING fractal dimension calculation program for 3D pore structure	Proprietary rights	2019																								
	6	The Effect of Uniaxial Pressure on the Development of 3D Fracture and Its Properties of Clay Cap Rock on One Potential Geothermal Area in Candi Umbul-Telomoyo, Semarang-Indonesia	Proprietary rights	2018																								
	7	3D BOX COUNTING fractal dimension calculation program for 2D pore structure	Proprietary rights	2018																								
	8	The Effect of Uniaxial Pressure on the Development of 3D Fracture and Its Properties of Clay Cap Rock on One Potential Geothermal Area in sumani Sumatera Barat - Indonesia	Proprietary rights	2018																								
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 33 Publication (Scopus Indexed)</i>  <i>Author(s)</i>  <i>Title</i>  <i>Any other information</i>  <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p> <table border="1"> <thead> <tr> <th>No</th> <th>Publication</th> <th>Author (s)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Liquefaction potential analysis in Bandung Basin using cone penetration Test</td> <td>IW Ambarwati, S Feranie, A Tohari</td> </tr> <tr> <td>2</td> <td>Investigation of 3D fractal dimension sensitivity on 3D fracture parameter</td> <td>Feranie, S., Sasmita, D., Latief, F.D.E.</td> </tr> <tr> <td>3</td> <td>Complexity analysis of the connected pore structure in 3D porous medium using meandering parameter and permeability.</td> <td>Rahmi, N., Latief, F.D.E., Feranie, S.</td> </tr> <tr> <td>4</td> <td>The effect of uniaxial pressure on development on 3D fracture and its properties of clay cap rock on one potential geothermal area in Candi Umbul-Telomoyo, Semarang-Indonesia.</td> <td>Sumarni,, Feranie, S., Ardi, N.D., Latief, F.D.E.</td> </tr> <tr> <td>5</td> <td>The effect of temperature on 3D rock structure of andesite rock sample from potential geothermal area, Sulawesi-Indonesia.</td> <td>Fitri, M., Hasanah, L., Latief, F.D.E., Feranie, S.</td> </tr> <tr> <td>6</td> <td>The Effect of Earthquake to Stability and Run Out Distance of Landslide during Rainfall: A case study of landslide prone area in West Java, Indonesia.</td> <td>Rizkianti, C., Feranie, S., Tohari, A</td> </tr> <tr> <td>7</td> <td>The influence of scientific creativity and critical worksheet (SCCW) on project based learning to increase cognitive ability, scientific creative skills and</td> <td>Kartika, S., Saepuzaman, D., Rusnayati, H., Karim, S., Feranie, S.A.</td> </tr> </tbody> </table>				No	Publication	Author (s)	1	Liquefaction potential analysis in Bandung Basin using cone penetration Test	IW Ambarwati, S Feranie, A Tohari	2	Investigation of 3D fractal dimension sensitivity on 3D fracture parameter	Feranie, S., Sasmita, D., Latief, F.D.E.	3	Complexity analysis of the connected pore structure in 3D porous medium using meandering parameter and permeability.	Rahmi, N., Latief, F.D.E., Feranie, S.	4	The effect of uniaxial pressure on development on 3D fracture and its properties of clay cap rock on one potential geothermal area in Candi Umbul-Telomoyo, Semarang-Indonesia.	Sumarni,, Feranie, S., Ardi, N.D., Latief, F.D.E.	5	The effect of temperature on 3D rock structure of andesite rock sample from potential geothermal area, Sulawesi-Indonesia.	Fitri, M., Hasanah, L., Latief, F.D.E., Feranie, S.	6	The Effect of Earthquake to Stability and Run Out Distance of Landslide during Rainfall: A case study of landslide prone area in West Java, Indonesia.	Rizkianti, C., Feranie, S., Tohari, A	7	The influence of scientific creativity and critical worksheet (SCCW) on project based learning to increase cognitive ability, scientific creative skills and	Kartika, S., Saepuzaman, D., Rusnayati, H., Karim, S., Feranie, S.A.
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		scientific critical skills senior high school students on sound wave problem.		
Activities in specialist bodies over the last 5 years	<b>Organization</b>		<b>Role</b>	<b>Periods</b>
	Physical Society of Indonesia		Member	2015 - Now
	Expert Staff of Indonesian Scientific Society		Member	2019 - Now
<i>Membership without a specific role need not be mentioned</i>				