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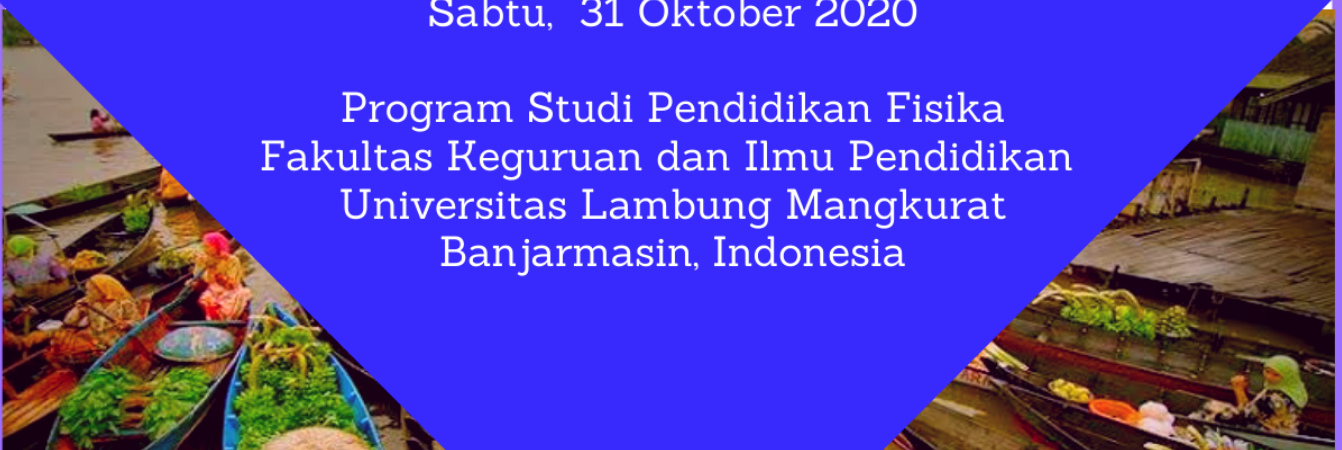
SEMINAR NASIONAL PENDIDIKAN FISIKA

TEMA

**“PENGUATAN PENDIDIKAN BERBASIS
KEARIFAN LOKAL DALAM
MENGEMBANGKAN KREATIVITAS DAN
KOMPETITIF PADA ERA SOCIETY 5.0”**

Sabtu, 31 Oktober 2020

Program Studi Pendidikan Fisika
Fakultas Keguruan dan Ilmu Pendidikan
Universitas Lambung Mangkurat
Banjarmasin, Indonesia



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**Ruang Prodi Pendidikan Fisika FKIP Universitas Lambung Mangkurat
Banjarmasin, 31 Oktober 2020**



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PREFACE

SEMINAR NASIONAL PENDIDIKAN FISIKA 2020 “PENGUATAN PENDIDIKAN BERBASIS KEARIFAN LOKAL DALAM MENGEMBANGKAN KREATIVITAS DAN KOMPETITIF PADA ERA SOCIETY 5.0”

The National Physical Education Seminar (SNPF) 2020 was organized by the Physics Education Study Program, Teacher Training and Education Faculty, Universitas Lambung Mangkurat (ULM) in collaboration with the Physical Society of Indonesia (PSI), South Kalimantan branch. The SNPF covers several fields of study, including strategy, models, methods, media, and evaluation in learning physics, chemistry, biology, mathematics, physics research results, artificial intelligence, future science development, and general education.

The theme raised was "Strengthening Education Based on Local Wisdom in Developing Creativity and Competition in the Era of Society 5.0". This seminar is a scientific forum that is very appropriate for sharing and disseminating research results and the best contribution in facing the Era of Society 5.0 without leaving aspects of local wisdom, which are actually great opportunities for this nation.

On behalf of the committee, we would like to thank the Chancellor of Universitas Lambung Mangkurat, Dean of the Teacher Training and Education Faculty, Head of the Mathematics and Natural Sciences Major, advisory board, steering committee, all committee members, reviewers, presenters, and participants. We, on behalf of the SNPF 2020 committee, would like to thank all parties for their participation in supporting this publication. We hope to see you all at the next conference.

Kind regards,

Surya Haryandi, M.Pd.
Chair of the SNPF 2020

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Banjarmasin, 31 Oktober 2020

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SEMINAR NASIONAL PENDIDIKAN FISIKA 2020

“PENGUATAN PENDIDIKAN BERBASIS KEARIFAN LOKAL DALAM MENGEMBANGKAN KREATIVITAS DAN KOMPETITIF PADA ERA SOCIETY 5.0”

Entering the era of industrial revolution 4.0 has begun many changes that we can feel. All office administration matters both government and private agencies have implemented an internet-based information system, storage and access of documents using cloud computing that is easily accessed anytime and anywhere, traffic control using artificial intelligent, ordering transportation services via applications, selling buy through e-commerce, use a digital wallet, control electronic equipment at home remotely, etc. Based on this, the industrial revolution 4.0 certainly had a social, humanitarian impact on developing community groups that are often referred to as the era of society.

Based on history, the development of the era of society can be divided into four levels. Era Society 1.0 is characterized by groups of people who depend on nature, such as hunting, nomadic life, and groups. Era society 2.0 is characterized by living permanently in an area, mastering farming skills, and having a social order. In the era of society 3.0 marked by the emergence of factories that can produce goods on a large scale and develop various kinds of land, sea, and air transportation. The era of society 4.0 has advanced even more where the development of technology and information and internet networks.

Based on an online article on kompas.com on January 25, 2019, Japan is a country that lacks productive labor because about 26% of the population is over 65 years old. Therefore, Japan innovates by applying digital technology centered on human life known as the era society 5.0. Characteristics of the era of society 5.0 are no longer based on capital but based on data and sophisticated computerized systems that connect various sectors with humans as the center. Logistics and imaging delivery of isolated areas is carried out with drones, the use of robots and sensors in public services, artificial intelligent in various equipment and software, etc. The era of society 5.0 is worth achieving with the hope that it can provide benefits and convenience in multiple aspects of social life. As a country rich in natural resources, diversity of tribes, languages, and customs, Indonesia must still maintain local wisdom while trying to reach the era of society 5.0. This is due to the noble character of a nation sourced from local wisdom. A strong, noble character is supported by the values of its people's culture, reflecting a great society. The character of a nation is formed by creativity; therefore, creativity and the ability to compete (competitive) can make a country stand side by side with other countries. The reality

that occurs at this time is the community's noble character and cultural values slowly displaced among the younger generation or millennial generation. These noble characters and cultural values are shifted, such as declining manners, dishonest behavior, and speaking, being engrossed in gadgets and ignoring others, easily being consumed by expressions of hatred and false news (hoaxes), and decreasing the culture of cooperation in the community. Departing from this, we, as practitioners of the world of education, especially the physics education study program FKIP ULM Banjarmasin, wish to conduct a national education seminar to strengthen education based on local wisdom in developing creativity and competitiveness in the era of society 5.0