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Insights into the interaction and discourse in the senior phase natural sciences classroom

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ABSTRACT

This paper investigated interaction and discourse during teacher classroom practices in the Senior Phase Natural Sciences in some of the rural schools positioned in the Vhembe District of the Limpopo Province, South Africa. Research method employed was qualitative interpretative multiple case study design. Two schools were selected and one Natural Science teacher from each school participated in this study. Classroom observations and interviews were used to collect data from Senior phase Natural Sciences teachers. Natural sciences teachers were interviewed in their schools and they wrote observed during their classroom practice. The findings of the study show that the type of discourse observed from Natural Sciences teachers was authoritative discourse and the pattern of discourse employed was Initiation-Response-Evaluation. Furthermore, teacher questioning was used to develop the lesson and evaluate learner understanding. Teachers used an interactive-authoritative communicative approach during their lesson presentation. The consequences of the approaches the teachers choose to use limit the opportunities for learners to interact amongst themselves and the subject content. It is recommended that besides a focus on subject matter knowledge during continuous development programmes, there is a need to focus on interactions and discourse too. Furthermore, there is a need to conduct further studies on a large scale so that a suitable intervention program can be designed for in-service teachers.

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Introduction

South Africa's national research and development strategies are intended to heal human capital development in the field of sciences (Department of Science and Technology, 2002). Even though the strategy was developed and published in 2002 there are still glaring challenges in its implementation for the production of human capital, in this case learners who take science-related subjects (Parmin, Saregar et al. 2020). It is therefore important that as many learners as possible who have interest in the subject take Natural Science in the further education and training phase (FET). This is crucial if they are to contribute meaningfully to the Millennium Development goals. Furthermore with the numbers of learners enrolled in science-related subjects in the FET phase decreasing, it has become more critical that learners are taught meaningfully and in an attention-grabbing manner in the senior phase (El Islami, Nuangchalerms, & Sjaifuddin, 2018). Obviously, teachers play an important role in the teaching of Natural Science.

In South Africa the government has made enormous efforts in producing qualified science teachers in rural areas such as in the Limpopo Province. However, there are still schools in rural areas that are lacking teachers who specialise in Natural Science. Obviously, such teachers experience challenges when teaching the subject (Nkanyani, 2018). This paper focused on the nature of classroom interactions and discourse of Natural Science teachers. The researchers hope that the findings of the study will assist practicing teachers in moulding their classroom practices as well as provide a foundation for in-service support programmes by researchers and stake-holders who are interested in the continuous professional development of Natural Science teachers.

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journal Vacuum it comprises a carefully edited collection of chapters written by specialists in each of the techniques and includes coverage of the electron and ion spectroscopies as well as the atom imaging methods such as the atom probe field ion microscope and the scanning tunnelling microscope Surface science is an important area of study since the outermost surface layers play a crucial role in processes such as catalysis adhesion wear and corrosion with applications in metallurgy thin films and surface coatings the chemicals and polymer industries and microelectronics to name a few This book covers those techniques used routinely for surface analysis as well as those employed for more fundamental scientific studies It will be of interest to university research workers graduate students and to industrial scientists solving practical problems

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Towards an embodied science of intersubjectivity: Widening the scope of social understanding research Ezequiel Di Paolo, Hanne De Jaegher, 2015-06-16 An important amount of research effort in psychology and neuroscience over the past decades has focused on the problem of social cognition This problem is understood as how we figure out other minds relying only on indirect manifestations of other people's intentional states which are assumed to be hidden private and internal Research on this question has mostly investigated how individual cognitive mechanisms achieve this task A shift in the internalist assumptions regarding intentional states has expanded the research focus with hypotheses that explore the role of interactive phenomena and interpersonal histories and their implications for understanding individual cognitive processes This interactive expansion of the conceptual and methodological toolkit for investigating social cognition we now propose can be followed by an expansion into wider and deeply related research questions beyond but including that of social cognition narrowly construed Our social lives are populated by different kinds of cognitive and affective phenomena that are related to but not exhausted by the question of how we figure out other minds These phenomena include acting and perceiving together verbal and non verbal engagement experiences of disconnection management of relations in a group joint meaning making intimacy trust conflict negotiation asymmetric relations material mediation of social interaction collective action contextual engagement with socio cultural norms structures and roles etc These phenomena are often characterized by a strong participation by the cognitive agent in contrast with the spectatorial stance typical of social cognition research We use the broader notion of embodied intersubjectivity to refer to this wider set of phenomena This Research Topic aims to investigate relations between these different issues to help lay strong foundations for a science of intersubjectivity the social mind writ large To contribute to this goal we encouraged contributions in psychology neuroscience psychopathology philosophy and cognitive science that address this wider scope of intersubjectivity by extending the range of explanatory factors from purely individual to

interactive from observational to participatory *SOFSEM 2008: Theory and Practice of Computer Science* Viliam Geffert, 2008-01-11 This volume contains the invited and the contributed papers selected for presentation at SOFSEM 2008 the 34 Conference on Current Trends in Theory and Practice of Computer Science which was held January 19-25 2008 in the Atrium Hotel Nový Smokovec High Tatras in Slovakia SOFSEM originally SOFTWARE SEMinar as an annual international conference devoted to the theory and practice of computer science aims to foster cooperation among professionals from academia and industry working in all areas in this field Developing over the years from a local event to a fully international and well established conference contemporary SOFSEM continues to maintain the best of its original Winter School aspects such as a high number of invited talks and in depth coverage of novel research results in selected areas within computer science SOFSEM 2008 was organized around the following tracks Foundations of Computer Science Chair Juhani Karhumäki Computing by Nature Chair Alberto Bertoni Networks Security and Cryptography Chair Bart Preneel Web Technologies Chair Pavol Návrat The SOFSEM 2008 Program Committee consisted of 75 international experts representing active areas of the SOFSEM 2008 tracks with outstanding expertise and an eye for current developments evaluating the submissions with the help of 169 additional reviewers An integral part of SOFSEM 2008 was the traditional Student Research Forum chaired by Maria Bielikova organized with the aim of presenting student projects in the theory and practice of computer science and to give students feedback on both originality of their scientific results and on their work in progress Enacting Intersubjectivity F. Morganti, A. Carassa, G. Riva, 2008-04-23 A trend in socio cognitive research investigates into the mental capacities that allow humans to relate to each other and to engage in social interactions This book offers a general overview of this area of research Handbook of Research on Agent-Based Societies: Social and Cultural Interactions Trajkovski, Goran, Collins, Samuel G., 2009-02-28 This volume addresses a variety of issues in particular the emergence of societal phenomena in the interactions of systems of agents software robot or human Provided by publisher

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at neuroscientists psychologists psychiatrists and philosophers The Oxford Handbook of 4E Cognition will be essential reading for anyone with an interest in this young and thriving field

Universal Access in Human-Computer Interaction: Universal Access to Information and Knowledge Constantine Stephanidis, Margherita Antona, 2014-05-15 The four volume set LNCS 8513 8516 constitutes the refereed proceedings of the 8th International Conference on Universal Access in Human Computer Interaction UAHCI 2014 held as part of the 16th International Conference on Human Computer Interaction HCII 2014 held in Heraklion Crete Greece in June 2014 jointly with 14 other thematically similar conferences The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The total of 251 contributions included in the UAHCI proceedings were carefully reviewed and selected for inclusion in this four volume set The 65 papers included in this volume are organized in the following topical sections access to mobile interaction access to text documents and media access to education and learning access to games and ludic engagement and access to culture

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Journal of Animal Science, 1988

A Review of Surface-water Sediment Fractions and Their Interactions with Persistent Manmade Organic Compounds Geological Survey (U.S.), 1987 See journals under US Geological survey Circular 993

Grid Computing in Life Science Akihiko Konagaya, 2005-03-07 This book constitutes the thoroughly refereed postproceedings of the First International Life Science Grid Workshop LSGRID 2004 held in Kanazawa Japan in May June 2004 The 10 revised full papers and 5 invited papers presented were carefully selected and went through two rounds of reviewing and revision Among the topics addressed are grid environment for bioinformatics grid architectures database federation proteome annotation grid workflow software functional genome annotation protein classification tree inference parallel computing high performance computing grid infrastructures functional genomics and evolutionary algorithms

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