

A REPORT ON A NOVEL 5-DAY WORKSHOP ON INTELLECTUAL PROPERTY, TECHNOLOGY TRANSFER, AND ENTREPRENEURSHIP

1.0 INTRODUCTION

The ACE-PUTOR, University of Port Harcourt, Nigeria in partnership with ACE-CERFOR, Intellectual Property and Technology Transfer Office (IPTTO), and Uniport Entrepreneurial Centre (UPEC), all in the University of Port Harcourt, organized a novel 5-day workshop on Intellectual Property Management, Technology Transfer and Entrepreneurship. The theme of the workshop was “Building an Innovation and Entrepreneurial Ecosystem for a Sustainable Development of the University” and the sub-themes were Innovation, Intellectual property, Commercialization, and Entrepreneurship. The period of the workshop was November 7-11, 2022, 9 am-4 pm daily, at the IPS Auditorium.

The workshop was aimed at bringing various policymakers and experts in both the industry and academia to deliberate on challenges and opportunities that are critical in Intellectual Property (IP) Management, Technology Licensing, and Entrepreneurship. The rich 5-day programme comprised keynote lectures, technical presentations, knowledge-sharing sessions, discussion groups, and hands-on experiences. The intended outcome of the workshop was to create/strengthen awareness and knowledge in the area of Intellectual Property Management, encourage and boost innovative research, through critical thinking and collaboration, and establish an Entrepreneurial Ecosystem for the sustainable development of the university.

The workshop was a type of Training of Trainers (ToT) workshop, where the Deans of Faculties, Heads of Departments, and Directors of Centres in the University of Port Harcourt, were trained to train the people under them as well as the entire university community, for the advancement of the University and global impact.

2.0 ACTIVITIES AND PARTICIPATIONS

The workshop activities pooled live participants from across all faculties and centers in the University of Port Harcourt, as well as virtual participants. Local, regional, and

International facilitators presented technical papers in line with the workshop theme and sub-themes.

2.1 DAY 1 EVENT

Day 1 marked the Opening Session by the Chief Host, Prof. Owunari Abraham Georgewill, 9th Vice-Chancellor of the University of Port Harcourt, in full support of the Co-Hosts, Profs. Daprim S. Ogaji and Ogbonna Joel; Special Guest of Honour, Emeritus Prof. Nimi D. Briggs; the Principal officers of the University and other great personalities, including Prof. Joseph I. Ajienka, 7th Vice-Chancellor of the University of Port Harcourt, and Prof. Vincent Idemyor, who served as the Chairman of the Occasion. In his opening remarks, Prof. Georgewill commended the Deputy Vice-Chancellor (R&D), the Centre Leaders-ACE, and other organizers of the workshop for the Novel workshop on Intellectual Property Management, Technology Transfer and Entrepreneurship and instituted **ANNUAL INNOVATION WEEK** beginning next year (2023).

2.1.1 WELCOME REMARKS AND APPRECIATION

The Centre Leaders ACE, Profs. Daprim S. Ogaji and Ogbonna Joel welcomed all participants to the workshop. As part of welcome remarks and appreciation, the Deputy Vice-Chancellor (R&D), Prof. I. M. Siminialaiye recalled the 9th Vice-Chancellor's inaugural address to Senate and Congregation, for a prosperous University of Port Harcourt, where by prosperity he meant an economic state of growth with rising profits and full employment. He remarked that for our continued growth and sustenance as a university, we must do things differently, imbibing the culture of Innovation and entrepreneurship. He stated that one of the strategies for ensuring continual quality research and education in the face of current declining government budgetary allocations is to create new platforms for partnerships with industry, grants and donor agencies/individuals through the establishment of interdisciplinary and multidisciplinary research/academic centers/institutes and endowed chairs. He

welcomed everyone and thanked facilitators, especially, the former Vice-Chancellors for agreeing to be part of the workshop.

2.1.2 KEYNOTE LECTURE

Keynote lecture on the theme “Building an Innovation and Entrepreneurial Ecosystem for a Sustainable Development of the University”, was delivered by an Erudite Scholar, Prof. O. Akaranta. He is a Professor of Industrial Chemistry and a former Coordinator of the two World Bank Africa Centres of Excellence at the University of Port Harcourt. He was the former Director of the Exchange and Linkage Programmes Unit of the University, Project Manager, of World Bank Step-B Projects, Director Centre for Research Management, and Director, of Science Institute and Project Leader of Uniport Innovation Ecosystem.

Prof. Akaranta commenced his lecture by giving precise definitions for innovation, namely;

- The application of new ideas to products, processes, or other aspects of the activities of a firm that lead to increased “value”.
- The process of translating an idea or invention into a good or service that creates value for which costumers will pay”.

He took the participants through extensive lecture sessions, including why Innovation is Important, and on the types of Innovation. He further listed some Innovation Drivers and Barriers and emphasized that Entrepreneurship is the key to innovation, productivity, and effective competition. The Keynote lecturer outlined some benchmarks for building an entrepreneurial ecosystem and submitted that Critical thinking skills and Technical skills are vital for an efficient ecosystem.

2.1.3 INFORMED ENTREPRENEURSHIP CURRICULA & ECOSYSTEM DEVELOPMENT: “AN ENTREPRENEURIAL UNIVERSITY PERSPECTIVE” (PART I)

A virtual session on Informed Entrepreneurship Curricula & Ecosystem Development, with a focus on “An Entrepreneurial University”, was presented by Prof. Alex

Antonites. Prof. Antonites is the Head of the Department of Business Management, University of Pretoria, South Africa. He is an expert in Entrepreneurship, Management & Strategy, Supply Chain Management, International Management, Responsible Leadership, Communication Management, and Turnaround & Rescue. Prof. Antonites took a Historical Perspective of Entrepreneurship with the emphasis that "Most of what you hear about entrepreneurship is all wrong, it's not magic; it's not mysterious, and it has nothing to do with genes. It's a discipline and, like any discipline, it can be learned." (Drucker (1986).

2.1.4 INNOVATION, COMMERCIALIZATION, AND ENTREPRENEURSHIP (PART I & PART II)

The 7th Vice-Chancellor of the University of Port Harcourt, Prof. Joseph A. Ajienka took the presentation of a two-session paper on Innovation, Commercialization, and Entrepreneurship. He started with introductory remarks on attitude and determination, acknowledging that it is very easy to Catalogue our challenges and deficits; Sink into hopelessness and despair; Feel defeated and allow the Status-quo; Fold our hands, choke our heads and close our hearts and do nothing. However, that self-determination would allow for the change of our mindsets and critical thinking for turning challenges into opportunities. He acknowledged that Education equips us with knowledge, skills, attitude, and values to make a difference in our lives, schools, and society in the New Knowledge Economy.

He opined that to become an academic entrepreneur requires capitalizing knowledge in the new knowledge economy, thinking Creativity & Innovation, thinking Commercialization & Entrepreneurship, and cultivating new paradigms such as;

(a) Patent-Publish-Produce

(b) Cooperation, Collaboration, Connection, Co-Creation: Triple Helix Plus+

Prof. Ajienka presented the Evolution of the University of the Port Harcourt Mission, namely

First Mission: Teaching & Learning with the outcome on quality human capital;

Second Mission: Research & Development with the outcome on new discoveries, inventions & innovations, patents innovation products such as new technologies, software applications, processes, policies, and programmes for knowledge & technology transfer;

Third Mission: Entrepreneurship with the outcome on licenses, Start-ups/Spin-offs, Products to market, Royalties; (Development of ICE Ecosystem); Secure the Future.

He observed that Research is critical for academic progression, a major factor in global university ranking, a foundation for knowledge and technology transfer, and the basis for innovation, commercialization, and entrepreneurship. He observed further that Entrepreneurial University is rooted in Creativity, Innovation, Commercialization, and Entrepreneurship. Hence, the new mindsets revolve around Research & Innovation Policies, Research Funding: National & Int'l Grants and Budget, Reputation Management for University Ranking, UniPort Innovations Portfolio: Research & Innovation Fair, Creative UniPort: Events, Fairs & Shows, Research Focus: Challenges and SDGs, and Adopt Role Model.

He recommended that

- (i) Since to qualify for inclusion in The World University Ranking, a University must

publish 1000 journal articles in Scopus-based Journals in 5 years; 150 per year, the University of Port Harcourt staff community should be encouraged to publish in high-impact journals.

- (ii) To Improve University Ranking, all academics and graduate students must register with

digital bibliographic platforms such as Google Scholar, SCOPUS, Academia, ORCID, and ResearchGate.

- (iii) There is a need to establish the University of Port Harcourt Internal Ranking Team.

2.2 DAY 2 EVENT

Day 2 commenced with a recap of the previous day's activities. This was immediately followed by the presentation of Technical papers and interactive sessions.

2.2.1 ABC OF GRANTSMANSHIP

The ABC of Grantsmanship was presented by Prof. Ibisime Etela, who is currently the Dean of the Faculty of Agriculture, University of Port Harcourt, and Assistant Coordinator of the Regional Centre of Expertise Greater Port Harcourt. The presentation was geared at steering up the passion among participants and motivating them to be active grant seekers for improved service delivery as they provide academic and administrative leadership at their various units. He remarked that successful Higher Education Institutions (HEIs), globally, are also entrepreneurial, and being entrepreneurial empowers HEIs to thrive under the prevailing paucity of funds through conventional funding sources, such as Grantsmanship. He emphasized that Entrepreneurial Universities are research-intensive and that high-impact research requires funding. For turnaround practice, he urged participants to understand that Grantsmanship is the ART and process of soliciting and securing funds for research and development through competitive peer review and is now an annual business conglomerate worth multibillion dollars.

He gave the food for thought "You are either Running with a VISION or Going on a MISSION or Burning with a PASSION in life. But, if you do not belong to any of these then, life for you will or is reduced to a burden" Dr. David Oyedepo; and implored every participant to key into the University's vision and mission of being Top-Ranked in Research and Innovation.

2.2.2 INFORMED ENTREPRENEURSHIP CURRICULA & ECOSYSTEM DEVELOPMENT: "AN ENTREPRENEURIAL UNIVERSITY PERSPECTIVE" (II)

A Part II technical paper on Informed Entrepreneurship Curricula & Ecosystem Development was presented by Prof. Alex Antonites. A model of the University of Pretoria - Entrepreneurship Education curricula was presented. The Curricula for Entrepreneurship Education Ecosystem include Formal qualifications, Elective modules, Short courses, and Workshops. Adopted approaches include Domain distinctive

approach, Domain integrative approach, and Domain eclectic approach. The Domain integrative approach offers Entrepreneurship Professional Online Development (POD), comprising 4 weeks of online training on Entrepreneurial & Business Skills – a business plan in any discipline of study, which is free to all students and staff.

2.2.3 SHARING EXPERIENCES WITH DEANS/DIRECTORS AND HODS

This session was handled by the Director of Intellectual Property and Technology Transfer Office (IPTTO), Prof. Mary P. Iwundu, with a focus on IPTTO & University Research. The responsibility of IPTTO was highlighted to include;

- Creating awareness of the value of innovative research;
- Upholding good research ethics;
- Encouraging and promoting indigenous technologies and the acquisition and utilization of Intellectual Property Rights (IPRs).

The ten-point criteria for ranking Universities through the operations of IPTTOs as given by the National Office for Technology Acquisition and Promotion (NOTAP), were highlighted and are as presented below;

- 1) **Visibility:** IPTTOs should be assessable with a very obvious signpost and directions.
- 2) **Documentation of all Intellectual Properties:** All Institutional R&D results should be well documented.
- 3) **Existence of Institutional IP Policies:** Reference could be made to the *Model Intellectual Property (IP) Policy For Nigerian Universities*.
- 4) **The number of Patent Applications received in a year.**
- 5) **Number of Patents obtained in a year.**
- 6) **Number of Patents licensed or commercialized.**
- 7) **Existence of Departmental IP Committees.**
- 8) **Frequency of IP sensitization to the University Community.**
- 9) **Manning Level:** Number of IPTTO Staff/Background of the IPTTO Staff.
- 10) **Frequency of report submission to NOTAP.**

A report on the FY2022 JPO/IPR training course on Academia-Industry Collaboration and Technology Transfer (August 3-30, 2022), organized by the Japan Patent Office (JPO)

together with Asia-Pacific Industrial Property Center (APIC) of the Japan Institute for Promoting Invention and Innovation (JIPPI), was presented. In the training course report, emphasis was made that for research output, paper presentation/publication is not enough return to society, but Patenting is an effective measure for returning research results to society. Hence, the Intellectual Property creation circle should include acquiring patents for commercialization, through technology transfer; eg via technology licensing or start-ups.

In the context of Intellectual Property, good research/creative work was redefined as that which composes some element of expressed originality, global novelty, non-obviousness, industrial or commercial application/usefulness, and distinctiveness and should be directed towards meeting the UN Sustainable Development Goals. As a Rule of thumb, patentability should be accessed based on the **principle of subtraction**

$$A - B = C$$

Where **A** represents COMPLETED INVENTION, **B** represents THE MOST SIMILAR PUBLIC-KNOWN ART (PRIOR ART), and **C** represents INVENTION'S CHARACTERISTICS.

The invention's characteristics must be different from conventional art (known/existing inventions). If an invention comes out with a significant (non-obvious) result then a patent can be obtained. The **principle of subtraction** should be applied to every research intention.

Some action points for all academic administrators were highlighted and included setting up of Departmental/Faculty/University IP Evaluation Committees, to draw membership from IPTTO, Technical Specialists from Departments/Faculties, and possibly Legal Adviser(s). The essence is to handle IP assessment for patentability and marketability and possibly for funding, giving priority to the ones with a higher possibility of licensing.

2.2.4 CREATING LOCAL SOLUTIONS TO GLOBAL PROBLEMS: A CASE STUDY OF HYDRATE RESEARCH IN NIGERIA

This session was handled by Dr. Toyin Odutola, who is a Senior Lecturer in the Petroleum and Gas Engineering Department of the University of Port Harcourt and the inventor of the First Hydrate Loop in Nigeria. The objective was to display the possibility of home-grown research addressing local and global challenges and alerting the participants that creating globally relevant research using indigenous technologies and local materials is possible. She presented her invention, the first Hydrate Loop in Nigeria, and compared it with some existing foreign Flow Loops, namely Tulsa Flow Loop, Changzhou University Flow Loop for hydrate studies (China), and CSIRO Hydrate Flow Loop. The learning point of her presentation is for every academic and researcher to develop a Growth Mindset, develop research through regular practice, document the process, and consistently improve on products.

2.3 DAY 3 EVENT

Day 3 commenced with a recap of the previous day's activities. The recap was immediately followed by the presentation of Technical papers and interactive sessions.

2.3.1 WIPO AND TISC- NATIONAL NETWORK INFORMATION

A Virtual lecture on WIPO and TISC- National Network Information, was given by Mr. Elangi Botoy Ituku, of the World Intellectual Property Organization (WIPO), Geneva Switzerland. Mr. Ituku is the Industrial Property Information Officer, Technology and Innovation Support Division, Intellectual Property for Innovators Department, Intellectual Property and Innovation Ecosystems Sector of World Intellectual Property Organization (WIPO), Geneva, Switzerland. He manages the Organization's Program on the establishment of Technology and Innovation Support Centers (TISC) for the benefit of African and Arab countries, in order to build their capacity to reduce technical and scientific knowledge gaps that exist between them and industrialized country members of the Organization. A Professor of Law at the University of Management, Economics & Finance (Swiss UMEF University), Geneva, Switzerland with special attention to Intellectual Property Management.

Mr. Ituku highlighted the objective of the TISC Program, which is to reduce the technical and scientific knowledge gaps existing between DC, LDC, and Industrialized Country members of WIPO. He gave an overview of TISC locations, resources, Technology Information and its categories, WIPO Patent Database: PATENTSCOPE, as well as WIPO Guides on Inventions in the Public Domain. He explained that the Inventor Assistance Program (IAP), a WIPO initiative in cooperation with the World Economic Forum that matches developing country inventors and small businesses with limited financial means, with Patent attorneys, thus providing pro bono legal assistance to help inventors secure patent protection. He encouraged Nigeria to register as a participating country. He highlighted how to organize the efficient use of technology information and TISC Resources in Nigeria, which include;

- Drafting a Good IP Development Plan;
- Setting up an Innovation Ecosystem ;
- Supporting R & D Effectively, in relation to Basic Research, Applied Research, and Environmental Development;
- Transforming the Educational System through adopting pedagogical methods that are not only theoretical but also experimental and through Academia-Industry Partnership.

He concluded by observing that through the TISC Program, WIPO puts at the disposal of DCs like Nigeria and LDCs, technology information and scientific publications and a lot of *practical tools* to use in order to reduce knowledge gaps between them and industrialized countries.

2.3.2 INTELLECTUAL PROPERTY AND YOU

An in-depth lecture on Intellectual Property was given by the Assistant Chief Registrar, Trademarks, Patents & Designs, Commercial Law Department, Federal Ministry of Industry Trade and Investment, Barrister Eno-obong Usen. She has over 12 years of experience in the field of Intellectual Property rights with a focus on Patents, Industrial Designs, and Trademarks. She has, at various times, served as an expert member of the Nigerian Delegation to the World Intellectual Property Organization at the General

Assembly, and on the Standing Committee on the Law of Patents, Trademarks, Industrial Design, and Geographical Indication. Her lecture objectives were to teach the concept of Intellectual Property, explore the concept of industrial property right in Nigeria, explore trademark rights, explore patent rights, and explore design rights.

2.3.3 SHARING EXPERIENCE IN INNOVATION AND ENTREPRENEURIAL ECOSYSTEM: A CASE STUDY OF WORCESTER POLYTECHNIC INSTITUTE, USA.

This session was handled by Mr. Winston Wole Soboyejo, the Interim President of the Worcester Polytechnic Institute, which is one of the first engineering and technology universities in the USA. His research in material science is focused on the use of nanoparticles for the detection and treatment of diseases and the promotion of global development. He is a member of the American Academy of Engineering, and he has contributed significantly to the growth of STEM in Africa. Mr. Soboyejo presented an overview of his research efforts and two case studies of Intellectual Property he was involved with. He discussed the origins of his first patent, Stamp Modulus Design, and the components of an Innovation Ecosystem. He also discussed the role of the Office of Research and Innovation and initiating Early Stage Research and Innovation. He concluded by stating that it is key to have a strategy that is both local and global, to avoid local obstacles and challenges. Such a strategy requires partnership which must be implemented within the context of the Research and Innovation Ecosystem.

2.3.4 ENERGYHUB: EMPOWERING AND COMMERCIALIZING THE CREATIVE AND INNOVATIVE MINDS

Dr. Amieyeofori Felix, MD/CEO, ENTEK Integrated Resources Limited Promoters of ENERGYHUBING, a digital collaboration platform for everything Energy, commenced the session of technical presentation by outlining the motivation for ENERGYHUB. The motivation includes, among others, the fact that “According to the Accra-based African Center for Economic Transformation, a policy think tank, almost 50% of current university graduates in Africa do not get jobs”. The root cause of the problem is a

mismatch between the education they are getting and labor market needs. (*Sarah Anyang Agbor, the African Union (AU) Commissioner for Human Resources, Science and Technology*). Dr. Amieyeofori explained the knowledge economy as an economic system based on intellectual capital and knowledge production, consumption, and dissemination (OECD 1996), wherein the new economy, technological advancement, new knowledge, and human capital work as the basis of growth.

He observed that Entrepreneurship is a key driver for economic development, where new businesses often introduce innovations into the market, create jobs, and help to secure the competitiveness of the national economy. He outlined considerable overlap between entrepreneurship and innovation, with a pointer that Innovation addresses market needs, and leverages entrepreneurship to achieve commercial success. He further outlined some Models of Innovation ranging from Linear models of innovation to interactive models of innovation and as a take-home, defines Innovation as the management of all the activities involved in the process of idea generation, technology development, manufacturing, and marketing of a new (or improved) product or manufacturing process or equipment. Furthermore, that to be successful in industries characterized by technological change, firms may be required to pursue innovations to create new demands outside of the aggregate demand of their current customers.

2.4 DAY 4 EVENTS

Day 4 commenced with a recap of the previous day's activities, and as with previous days, the recap was immediately followed by the presentation of technical papers and interactive sessions.

2.4.1 CHALLENGES WITH THE COMMERCIALIZATION OF ENTREPRENEURIAL DEVELOPMENT IN NIGERIA

This session was facilitated by Engr. Dr. Keluo Bosah Chukwuogo, MD, BOSKEL Nigeria Ltd. He is an inventor and developer of many engineering processes which include;

- (i) BOSKEL's smokeless oil field flare system

- (ii) Thermal system for the safe processing (remediation) of oil-contaminated soils and tank bottom sludges
- (iii) High-temperature incinerators for the disposal of wastes and a pyrolysis system for the disposal of plastics & conversion to fuels (kerosene, diesel, etc.).

Engr. Dr. Chukwuogo addressed challenges associated with the commercialization of entrepreneurial development in Nigeria from his personal perspective. He started his technical paper with a thought-provoking statement that Economies are known to grow best and fastest through the activities of Entrepreneurs, where entrepreneurial developments could be regarded as the development works arising out of the Entrepreneurial drive of the participants. Understanding that Commercialization is essentially the process of bringing a new product or service to market, Engr. Dr. Chukwuogo observed that Commercialization could be very intimidating to a typical researcher or entrepreneurial developer since it involves many other steps, such as raw materials sourcing, production, distribution, marketing, and sales, etc., which he described as real-world issues.

He listed some challenges associated with the commercialization of entrepreneurial development in Nigeria including;

- i. Unbelief in ourselves/our own: where entrepreneurs are faced with some disbelief or low regard for their products by fellow Nigerians.
- ii. The poor state of Infrastructure, including Power.
- iii. Nigeria's Judicial System: where Court Cases tend to drag on for unreasonably long periods.
- iv. Education, Knowledge, and Skills: sadly, emphasizing that unfortunately, over several years, there has been a remarkable decrease in the quality of education in Nigeria.
- v. Security: where in trying to commercialize one's development, one is exposed to threats from both the criminal world and the crime-fighting world.

- vi. Government Policies: where most of the policies in Nigeria seem targeted at discouraging commercialization and policies that were established decades ago are left unchanged and used to manage current developments in the economy.
- vii. Regulators: where in Nigeria, there seem to be too many regulators to deal with as one tries to bring a product or service to the marketplace, and in some cases, the regulators act as if their purpose is to shut your activities down, and where some of these regulators are duplicated at different levels of government.
- viii. Financing Facilities: where most entrepreneurial developments in Nigeria are unable to grow beyond the proof-of-concept stage due to the difficulties in raising appropriate funds for commercialization.
- ix. Corruption & Bureaucratic Processes; where in Nigeria, numerous corrupt practices abound along the pathways that lead to the commercialization of entrepreneurial developments. He pointed out that these obstacles include deliberate blockages by bureaucrats who may be representing conflicting interests – usually foreign.

He suggested the following solutions;

- 1) Setting up a collaborative delivery system, which will retain a certain percentage of the ownership. Where this setup will be focused on getting the product or service to the marketplace.
- 2) Setting up appropriate and workable collaboration between university researchers and industry promoters, which could help in smoothening the pathway to the commercial success of developments.
- 3) Giving students of tertiary institutions mandatory courses in entrepreneurship and management.
- 4) Focusing on supporting Nigerian-made goods and services, provided they are presented at levels that match international standards.
- 5) Getting our legal system to run more efficiently in order to conclude IP cases speedily.
- 6) Being real to ourselves.

2.4.2 BUILDING RESPECT FOR YOUR INTELLECTUAL PROPERTY

The Assistant Chief Registrar, Barrister Enobong Usen, of Trademarks, Patents & Designs, Commercial Law Department, Federal Ministry of Industry Trade and Investment, continued her lecture on Intellectual Property by focusing on the subject of Respect for Intellectual Property. She observed that Universities and Colleges are “factories of the knowledge economy” that can utilize patents and copyrights to “disseminate the knowledge they generate and to have that knowledge used in the economic sector.” Unfortunately, Universities and Colleges face Intellectual Property issues on a regular basis, hence the need for ENFORCEMENT of IP rights. She enlightened participants on the laws governing the enforcement of Intellectual Property Rights in Nigeria. She highlighted some intellectual property infringements and mechanisms for enforcement. Her session ended with a case study on Trademark, where workshop participants deliberated over at group levels.

2.4.3 THE UNIVERSITY AND NIGERIA’S BUDDING STARTUP ECOSYSTEM: CONNECTING THE DOTS

Mr. Bereni Dinma-Fiberesima, a very visionary entrepreneur, handled the session on Startups. He emphasized the place of the Triple Helix Model, which is the key driver for a sustainable Ecosystem. The Triple Helix Model includes Government, Industry, and Academics (the University/Research Institutes). He identified funding as a huge challenge that some young Nigerians face because the environment does not seem to support them. He then encouraged domestic investors to invest in local start-ups adding that the existence of the Nigeria start-up act that has just been signed into law. He explained that the act is a legal framework designed to unlock the potential of the digital economy in Nigeria. He encouraged the Academia to champion start-ups and be part of the digital economy because it has the potential to grow and be highly profitable to meet any investor’s needs. He then suggested that the university curriculum should be modified to accommodate start-ups in the entrepreneurial ecosystem.

2.4.4 COLLABORATION AND PROFESSIONAL ENGAGEMENT FOR ENHANCED ACADEMIC CAREER TRAJECTORY IN HIGHER EDUCATION

This session was anchored by Prof. Chioma Blaise Chikere. She is the Director of the Entrepreneurial Centre, University of Port Harcourt (UPEC), and a Professor of Environmental Microbiology & Biotechnology. She defined Professional engagement as a measure of how invested an educator is in all aspects of his/her work, and hence a reflection of one's innate motivation or commitment to duty. She outlined some benefits of establishing a good career trajectory including helping create meaningful & productive professional and personal lives, exploring possibilities within and beyond academic roles at the university, as well as contributing towards the mission of the institution. She emphasized the need for research collaboration, cutting across Intra-disciplinary, Interdisciplinary, Multi-disciplinary, Trans-disciplinary, and National/International levels. To attract collaborators, she encouraged active membership in professional bodies, publications and professional visibility (ORCID, SCOPUS, ACADEMIA, RESEARCHGATE), and social media visibility.

2.4.5 ENTREPRENEURSHIP IN TECHNOLOGY

Prof. Daniel Naidoo presented a captivating virtual lecture on Entrepreneurship in Technology. He discussed three forms of extended reality which are Virtually Reality, Augmented Reality, and Mixed Reality. He explained that virtual reality involves the use of computer technology to create a simulated environment that can be explored to one's advantage. This could be in games, entertainment, and healthcare. He further explained that Augmented reality is an enhanced version of the real physical world that is achieved using digital visual elements, sound, or other industrial, interior design, and healthcare. The mixed reality involves the merging of a real-world environment and a computer-generated one. He observed that Physical and virtual objects may co-exist in mixed reality environments and interact in real-time, this could be in Education, Automotives, and Healthcare.

2.5 DAY 5 EVENT

Day 5 commenced with a recap of the previous day's activities. This was immediately followed by the presentation of technical papers and interactive sessions.

2.5.1 GLOBAL UNIVERSITY RANKING & UNIVERSITY ADVANCEMENT: IS THERE A RELATIONSHIP BETWEEN THEM?

Emeritus Prof. Nimi D. Briggs presented a very passionate paper on University Ranking and University Advancement, with the sole aim of determining if there is a correlation between them. Prof. Briggs is an Emeritus Professor of Obstetrics and Gynaecology, who served as the 5th Vice-Chancellor of the University of Port Harcourt. He is a Fellow of the Nigeria Academy of Science, and he has contributed immensely to the revitalization of the Nigerian University system; former chairman of the committee of vice-chancellors, former Pro-chancellor, and several other appointments and honours.

Prof. Briggs explained that although Universities differ in their Mission, Orientation, and Culture, they are similar in Common lineage, Identity, Statutory Acts, Charters, and Legal Instruments. He pointed out that CRITICAL THINKING is essential for advancement, and that Innovations are the products of critical thinking. He emphasized that although ranking is new to universities, the universities are ranked;

- i. to help them understand their position against their remit;
- ii. to help students find and access the universities that are best suited to their abilities and aspirations;
- iii. to help Higher Education deliver transformational teaching, research, and innovation;
- iv. to help proprietors assess their universities with respect to their mission and vision.

While emphasizing

“Success in our field is never an accident; It is achieved through a relentless pursuit of excellence, creative brilliance, and a deep commitment to our enduring values”

Prof. Briggs posited that university advancement requires a symbiotic relationship between the Universities and Society; specifically, universities as important components of communities work to improve the welfare of society, and Society in return supports

universities in varied ways, to satisfactorily carries out their multiple functions. He urged the university management to “Lead us to where we should be to enable us to justify our existence as a university”, and concluded that well-endowed universities fare better in the ranking system. Hence, this answered the question of the correlation between Global University Ranking and University Advancement.

2.5.2 PARTNERSHIP AMONG HIGHER EDUCATION INSTITUTIONS IN THE NEW KNOWLEDGE ECONOMY: EITHER WE COLLABORATE OR COLLAPSE

Another very brilliant paper was presented on advancement through partnership among Higher Education Institutions in the New Knowledge Economy. This session was handled by Prof. Joseph Ajienka, 7th Vice-Chancellor of the University of Port Harcourt, and Emmanuel Egbogah Chair of Petroleum Engineering, University of Port Harcourt. Prof. Ajienka gave an in-depth lecture on Why we must Collaborate, the Power of Partnership, Drivers of Collaboration, Hurdles/Barriers against Collaboration, and the option to Collaborate or Collapse.

He emphasized that the Challenges of the World are better solved through collaborative efforts, hence, we cannot live and work in silos and achieve better results and sustainability. Furthermore, collaborative efforts yield better results, illustrating that $A+B=C$; where C should be better than A and B; with improved characteristics. Strategies for collaboration include;

- ✓ Identifying Role Model Universities
- ✓ The Approach: Honourable Wooing
- ✓ Legal Framework: MOU/MOA
- ✓ Constitution and Partition of Responsibilities of Partners.

He pointed out the **Key Roles of Triple Helix Partners, namely;**

- **Government (MDAs):** Policy & Politics for Sustainable Development
- **Universities:** Teaching, Research, Entrepreneurship (*Knowledge and Technology Transfer*); Community Service
- **Industry:** Practice, Productivity, and profitability for Economic Development.

2.5.2 STRATEGIES AND MECHANISMS FOR FACILITATING ACCESS TO INNOVATION IN DEVELOPING COUNTRIES AND RESEARCH COMMERCIALIZATION

Joint sessions on strategies and mechanisms for facilitating access to innovation in developing countries, and research commercialization, were handled by Dr. Obichi Obiajunwa, a public health physician and an innovation leadership expert. He is also the program manager of i-FAIR (Innovation Fellowship for Aspiring Inventors and Researchers) as well as the technical program manager of Nigeria's TETFund Alliance for Innovative Research (TETFAIR).

Dr. Obiajunwa outlined factors that facilitate access to innovation to include, effective regulatory systems, local production, effective IP systems, and a market system that works. On the role of local production in the accessibility of innovations, he opined that "Manufacturing is probably the only proven development model so far that has helped to bring jobs, export revenues, and rapid and sustained prosperity to a range of (mainly Asian) poorer countries. But unless African countries get down to the messy and laborious task of actively promoting manufacturing through targeted infrastructure, skills development, financial policy, making quality connections with agriculture and services in partnership with the private sector, and preparing for a more digital future, significant industrial capacity may never take hold in Africa. The window of opportunity is closing". He emphasized the role of an effective IP system and "Market Pull" in accessing innovation, and concluded as follows "Innovation is the unrelenting drive to break the status quo and develop anew where few have dared to go". At the next session, he pushed further to the need for Research Commercialization.

3.0 ANNUAL INNOVATION WEEK INSTITUTION

The 9th Vice-Chancellor and Chief Host, Prof. Owunari Abraham Georgewill, instituted **ANNUAL INNOVATION WEEK** beginning next year (2023).

4.0 RECOMMENDATIONS

1. Since to qualify for inclusion in the world university ranking, a university must publish 1000 journal articles in Scopus-indexed Journals in 5years; 150 per year, the University of Port Harcourt staff community should be encouraged to publish in high-impact journals.
2. Establish the University of Port Harcourt Internal Ranking Team
3. To Improve University Ranking, All Academics and Graduate Students must Register and create profiles with Digital Bibliographic Platforms such as Google Scholar, SCOPUS, Academia, and ResearchGate.
4. There should be training on Entrepreneurship, since it's a discipline and, like any discipline, it can be learned, and with a business plan in any discipline of study for all students and staff.
5. Researchers should be active grant seekers for improved service delivery. Accordingly, all PhD students must apply for grants as a requirement for graduation, in order to develop a culture of grant writing.
6. IP education should be introduced to students, particularly post-graduate students.
7. There should be regular public lectures on intellectual property, thereby creating the needed publicity and awareness of IPs.
8. All graduate students should complete an IP reporting form as part of their research findings for assessment of patentability by IPTTO.
9. There should be annual reporting of IP Documentation.
10. Encourage the setting up of Departmental/Faculty/University IP Evaluation Committees, to draw membership from IPTTO, Technical Specialists from Departments/Faculties, and possibly Legal Adviser(s). The essence is to handle IP assessment for patentability and marketability and possibly for funding, giving priority to the ones with a higher possibility of licensing.
11. Work out Industry-Academia collaborations for good research that will enhance societal value.

12. Every academic and researcher should develop a growth mindset, develop research skills through regular practice, document the process, and consistently improve on products.
13. Transforming the educational System through adoption pedagogical methods that are not only theoretical but also experimental and through Academia-Industry Partnership.
14. Take advantage of the WIPO Patent Database and the Technology Innovation Support Centres (TISC) program to reduce the technical and scientific knowledge gaps existing between developing countries and Industrialized Country members of WIPO.
15. Be a part of Inventor Assistance Program (IAP), a WIPO initiative in cooperation with the World Economic Forum that matches developing country inventors and small businesses with limited financial means, with Patent attorneys, thus providing pro bono legal assistance to help inventors secure patent protection. He encouraged Nigeria to register as a participating country.
16. Give all students of tertiary institutions mandatory courses in entrepreneurship and management.
17. Identify Role Model Universities as part of Strategies for collaboration.

5.0 APPRECIATION

The Organizing Committee is grateful to the Vice-Chancellor for the opportunity to serve the University in this capacity. It is our earnest prayer that the University of Port Harcourt will continue to build capacity for institutional position and reputation.

Faculties and Students Training on Entrepreneurship and Innovation





6.0 COMMITTEE MEMBERS

Prof. Iyeopu M. Siminialayi

Prof. Mary P. Iwundu

Prof. Chioma Blaise-Chikere

Dr. Kingsley C. Patrick-Iwuanyanwu

WORKSHOP ON INTELLECTUAL PROPERTY MANAGEMENT, TECHNOLOGY TRANSFER AND ENTREPRENEURSHIP – UNIVERSITY OF PORT HARCOURT



Participant Feedback

Location: 1. Physical. 2. Virtual

We would appreciate if you could take few moments and complete this feedback form indicated by a ✓ in the relevant column

Rating guide 5 = excellent 4 = very good 3 = good 2 = fair 1 = poor

Rating		1	2	3	4	5
Appropriateness or usefulness of the workshop to you						
Workshop support you received						
Registration for the workshop						
Logistics	Physical Learning Environment (for physical participants)					
	Virtual Learning Environment (for virtual participants)					
	Audio/Visual					
	Interaction with the participants					
Course Faculty	Name of Faculty 1: Emeritus Professor Nimi Briggs					
	Knowledge about course contents					
	Teaching skills					
	Engagement with participants					
	Name of Faculty 2: Prof JA Ajienka					
	Knowledge about course contents					
	Teaching skills					
	Engagement with participants					
	Name of Faculty 3: Prof O. Akaranta					
	Knowledge about course contents					
	Teaching skills					
	Engagement with participants					
	Name of Faculty 4: Prof I. Etela					
	Knowledge about course contents					
	Teaching skills					
	Engagement with participants					
	Name of Faculty 5: Dr Keluo Chukwuogo					
	Knowledge about course contents					
	Teaching skills					
	Engagement with participants					
	Name of Faculty 6: Bereni Dinma-Fiberesima					
	Knowledge about course contents					
	Teaching skills					
	Engagement with participants					
	Name of Faculty 7: Barr. Eno-Obong Usen					
	Knowledge about course contents					
	Teaching skills					
	Engagement with participants					
	Name of Faculty 8: Dr Obichi Obiajunwa					
	Knowledge about course contents					
Teaching skills						
Engagement with participants						
Name of Faculty 9: Dr Toyin Odutola						
Knowledge about course contents						
Teaching skills						
Engagement with participants						
Name of Faculty 10: Dr Amieofori V. Felix						
Knowledge about course contents						
Teaching skills						
Engagement with participants						

Thank you for participating, we appreciate your feedback

Attendance Sheet

SURNAME	OTHER NAMES	POSITION	GENDER
IBEZIM-EZEANI	MILLCENT UZOAMAKA	DIRECTOR, CENTRAL INSTRUMENT LABORATORY	FEMALE
ALEX-WELE	MARY ADANMA	CONSULTANT CLINICAL MICROBIOLOGY & COORDINATOR MICROPARASITOLOGY	FEMALE
NJOKU	ANTHONY	HOD	MALE
IFEANACHO	MERCY	HOD, FOOD, NUTRITION AND HOME SCIENCE	FEMALE
ONUA	MARY	SAR	FEMALE
EGESI	NDUKAUBA	HOD, GEOLOGY	MALE
INEDE	MARIAM JIBRIL	PAR	FEMALE
OSUJI	JULIAN ONYEWUONYEOMA	DIRECTOR, REGIONAL CENTRE FOR BIOTECHNOLOGY AND BIORESOURCES	MALE
UGWU	CHINELO JOY	HOD	FEMALE
MUSA	MARTHA OZOHU	COORDINATOR, CYBERSECURITY DEPARTMENT	FEMALE
ALEX	AMINIM		MALE
AGAVIEZOR	BRILLIANT OGAGAOGHENE	HOD	MALE
ACHADU	MICHAEL ABAH	HOD, CHEMICAL ENG	MALE
ODUJOLA	TOYIN OLABISI	SENIOR LECTURER	FEMALE
OKOWA	AMANDA ONYANI	LECTURER	FEMALE
NICS	O. UBOGU	HOD, FINE ARTS AND DESIGN	MALE
ETELA	IBISIME	DEAN, FAC OF AGRICULTURE	MALE
NDUKWU	GERALDINE U.	COORDINATOR, OF FAMILY MEDICINE	FEMALE
AMAH	EDWINAH	DIRECTOR	FEMALE
GODFREY-KALIO	ISEYECHINO	HOD, EARLY CHILDHOOD & PRIMARY EDUCATION	FEMALE
OJULE	INUMANYE	DIRECTOR CENTRE FOR HEALTH AND DEVELOPMENT	
UZOUKWU	IFEOMA ESTHER	SAR	FEMALE
GEORGE- ANOKWURU	CHIOMA CHIDINMA BERNADETTE	SENIOR LECTURER	FEMALE
OMASANUWA	ZELDA ANNE	ASSOCIATE DEAN, AGRIC	FEMALE
HART	VICTOR OPUADA	LECTURER	MALE
IBIM	ADABA TONYE	HOD, FISHERIES	FEMALE
EMODI	ANGELA IZUKANNE	HOD, AGRICULTURAL EXTENSION & DEVELOPMENT STUDIES	FEMALE
EKPENYONG	OTU ANTHONY	HOD, SOCIOLOGY	MALE
ECHEFU	ODAZIE N.R.	ACE-PUTOR STUDENT	FEMALE
ALEX-NMECHA	JULIET CHINEDU	HOD, LIBRARY AND INFORMATION SCIENCE	FEMALE
NDIOHO	OFONIME FRIDAY	HOD, SCIENCE EDUCATION	MALE
ONYEASO	ADEDAMOLA OLUTOYIN	ASSOC. PROF	FEMALE
OPARA	PEACE IBO	HOD, PAEDIATRICS, FCS	FEMALE
NDU	FAVOUR CHIOMA	SEC.	FEMALE
UKAEGBU	BERNADETTE CHINASA NKEIRUKA	SENIOR LECTURER	FEMALE

SURNAME	OTHER NAMES	POSITION	GENDER
DODIYI-MANUEL	SOTONYE	SENIOR LECTURER	FEMALE
IKEWUCHI	CATHERINE CHIDINMA		FEMALE
OGAJI	DAPRIM SAMUEL	CENTRE LEADER, ACE-PUTOR	MALE
NDU	EUGENE CHIGOZIE	HOD, HOSPITALITY MGT & TOURISM	MALE
ANACLETUS	FRANCIS CHUKWUMA	HOD, BIOCHEMISTRY	MALE
NZEAKO	SIDNEY OBIDINMA	HOD AEB	MALE
EGHWURDJAKPO R	PATRICK	DEAN, CLINICAL SCIENCES	MALE
OKAFOR	CHIDINMA PEACE	ACE-CEFOR STUDENT	FEMALE
ELENDU	IFEANYICHUKWU CHRISTIAN	HOD	MALE
EKENEDO	GOLDA OBIAGERI	HOD	FEMALE
ORDINIOHA	BEST	DIRECTOR	MALE
MBEE	DANIEL MBEE	AG. DIRECTOR	MALE
WILLIAMS	CHETA	DEAN, EDUCATION	MALE
ONYENEMEZU	CHIDI ETHERLBERT	HOD, ADULT & NON-FORMAL EDUCATION	MALE
OJIABO	UKOHA	DIRECTOR OF DATALABX.ORG	MALE
JONATHAN	STEPHEN OSITA	MSC STUDENT	MALE
SULEIMAN	MIKAILU	COORDINATOR OF PHARMACOGNOSY & PHYTOTHERAPY	MALE
APRIOKU	JONAH SYDNEY	DEAN	MALE
HENRI-UKOHA	ADANNA	HOD, AGRIC ECONS & AGRIBUSINESS MGMT	FEMALE
NWONDAH	CHIGOZIE	PHD STUDENT	MALE
ALERECHI	ROSELINE IHUOMA CHUKWUNONYE	HOD, LINGUISTICS AND COMMUNICATION STUDIES	FEMALE
OCHELI	EMMANUEL OSSAH	SENIOR LECTURER	MALE
EMESEALU	HELEN U.	UNIVERSITY LIBRARIAN	FEMALE
CHINDA	GLORIA OBIAGERI	UNIVERSITY REGISTRAR	FEMALE
AKOMAH- ABADAIKE	ONYINYECHI NDIMELE	COORDINATOR, MICROBIOLOGY TECHNOLOGY	FEMALE
GEORGE	CHIBUZOR	CHIEF PROTOCOL FOR VICE-CHANCELLOR	MALE
WARIBOKO	TAMUNO-TONYE G	QUANTITY SUVERYOR II	MALE
GEORGEWILL	OWUNARI ABRAHAM	UNIVERSITY VICE-CHANCELLOR	MALE
ESSIEN	EKA BASSEY	DEAN, FAC. OF SCIENCE	FEMALE
PAUL	CHIKWUOGWO WOKPEOGU	AG. DEAN FBMS	MALE
SAMUEL	KPENU	PRO, COMMUNICATION OFFICER	MALE
ONYIDO	JOSEPHINE AZUKA	HOD, EDUCATIONAL FOUNDATIONS	FEMALE
IWUNDU	MARY PASCHAL	DIRECTOR, IPTTO	FEMALE
ETIM	KINGSLEY S.	VC'S ORDERLY	MALE
AJENKA	JOSEPH ATUBOKIKI	PROFESSOR	MALE
DINMA- FIBERESIMA	BERENI		MALE
OKODUDU	EZINNEKA EUNICE	LECTURER	FEMALE
ODAGME	BARIDOR SAMUEL	LECTURER	MALE
EKECHUKWU	ROSEMARY OBIAGERI	DIRECTO, COUNSELLING & HUMAN DEV. CENTRE	FEMALE

SURNAME	OTHER NAMES	POSITION	GENDER
ORJI	OLIVIA AMAKA	LIBRARY ATTENDANT	FEMALE
ONU	IGOCHI PRAISE	LECTURER	MALE
IGWE	CONFIDENCE	PAR	MALE
ORAKWUE	STELLA IFEOMA	SENIOR LECTURER	FEMALE
IGBOEKWE	CHUKWUNONSO ONYEDIKA	STUDENT	MALE
NININYE	MAXWELL	HOD, MANAGEMENT	MALE
UWAJINGBA	EBINEPRE CHUKWUEMEKA	CHIEF TECHNOLOGIST	FEMALE
BEKIBELE	GRACE ESEROPHE	PHD STUDENT	FEMALE
WORLU	ROSANNAH SHEDRACK	SAR	FEMALE
WEGWU	BLESSING IJEOMA	LIBRARIAN 1	FEMALE
HENRY-UNAEZE	HELEN NONYE	SENIOR LECTURER	FEMALE
UNAEZE	HENRY CHIAKA	SENIOR LECTURER	MALE
ORLUWENE	GOODNESS WOBHIELE	DIRECTOR, POST NCE SANDWICH PROGRAMME	FEMALE
NWAOZUZU	CHIJOKE	PROFESSOR	MALE
ADESOPE	OLUFEMI MARTINS	PROFESSOR	MALE
FRANCIS	AMIYE	ASSOC. PROF	FEMALE
NDUBUISI	ELIZABETH CHINYEREM	LECTURER	FEMALE
ADEDOKUN	OLUTAYO MODUPEOLA	PROFESSOR	FEMALE
AKINKALI	JUSTIN AYAEBUNEM	SENIOR LECTURER	MALE
ONWUGBUTA	GODPOWER CHUKWUEMEKA	COORDINATOR, BIOCHEMISTRY TECHNOLOGY	MALE
NWIDU	LUCKY LEGBOSI	PROFESSOR	MALE
ABAH	AUSTIN	HOD, MEDICAL LABORATORY SCIENCES	MALE
ALAGALA	MICHAEL BARIFA	LECTURER	MALE
JAJA	BETHEL ONYECHERE	LECTURER	MALE
JOHNSON- AJINWO	OKIEMUTE ROSA	HOD, PHARM/MEDICAL CHEMISTRY	FEMALE
HAMADINA	ELSIE IHUAKWU	HOD, CROP & SOIL SCIENCE	FEMALE
NNA	NEKABARI JOHNSON	DEAN, FSS	MALE
CHINWUBA	CHINEDU ARINZE		MALE
USEN	ENO-OBONG YOUNG	ASSISTANT CHIEF REGISTRAR	FEMALE
DIVINE-CHIORLU	LILIAN	PAR	FEMALE
AYUWO	JONES GILBERT IJOH	SENIOR LECTURER	MALE
AYENI	ADEWALE OLUMUYIWA	ADMINISTRATOR	MALE
UBANI	KENNETH CHIEDOZIE	CENMERT STUDENT	MALE
OSUAGWU	CHIJIANYAM GANIRU	SENIOR REGISTRAR, COMMUNITY MEDICINE	FEMALE
UGBEBOR	JOHN NWENEARIZI	DIRECTOR, COHSE	MALE
OTOBO	MIEBAKA BEVERLY	LECTURER	FEMALE
OKEKE	BLESSING CHIDINMA	STUDENT	FEMALE
OLANREWAJU	BLESSING DEBORAH	STUDENT	FEMALE
VIKOO	BARIBOR	HOD	MALE
BIG-ALABO	AKURO	SENIOR LECTURER	MALE

SURNAME	OTHER NAMES	POSITION	GENDER
ANYANWU	NGOZI GOODLUCK	STUDENT	FEMALE
ANELE	KINIKANWO AZNUNDA	PROFESSOR	MALE
UDO	ANIEKAN	DIRECTOR, BUSINESS DEVELOPMENT	MALE
AMADI	FLORA ALEKIRI	DEPUTY REGISTRAR	FEMALE
NGOZI	EGWUEKWE EVELYN	SUPERVISOR	MALE
OSUAGWU	EUNICE CHIDINMA	LCS	FEMALE
UMEAKUKA	CHINELO	ADMINISTRATIVE ASSISTANT	FEMALE
ASIEGBU	UCHEOMA ADANNA	LECTURER	FEMALE
WARISO	KENNEDY TAMUNOIMEGBAM	DEAN, FAC. OF BASIC CLINICAL SCIENCES	MALE
WEGWU	MATTHEW OWHONDA	PROFESSOR	MALE
ONYIA	OBIANUJU FELICITAS	AR	FEMALE
NWACHUKWU	NKEMAKOLAM	HOD, PHARMACEUTICS & PHARM. TECHNOLOGY	MALE
ABU	GIDEON	PROFESSOR	MALE
STANLEY	HERBERT OKECHUKWU	HOD, MICROBIOLOGY	MALE
WOSU	FORTUNE ADABA	ASSISTANT CLERICAL OFFICER	FEMALE
SOFOLABO	ADEKUNLE OYEMADE	DEAN, SSLT	MALE
ADENIJI	FOLUKE	HOD, PSM	FEMALE
OTUTU	SUNDAY	MSC STUDENT	MALE
FAWEHINMI	HADEEZAT OMOTAYO	ASSISTANT REGISTRAR	FEMALE
OBENEME	HELEN ALEKIRI	HIGHER EXECUTIVE OFFICER	FEMALE
ANDY-OWHOR	BLESSING CHINYERE	PERSONAL SEC.	FEMALE
IBEZIM	CHIDOZIE NGOZI E	LECTURER	FEMALE
ASIANUBA	IFEOMA BENARDINE	SENIOR LECTURER	FEMALE
ONYEIKE	VICTORIA CHINASA	HOD, EDUCATIONAL MANAGEMENT	FEMALE
OGUGBUE	CHIMEZIE JASON	PROFESSOR	MALE
ONYEJEGBU	LAETICIA NNEKA	DEAN, FAC. OF COMPUTING	FEMALE
EZEORA	JEREMIAH NKWEGU	HOD, MATHEMATICS & STATISTICS	MALE
CHIKERE	CHIOMA BLAISE	DIRECTOR, ENTREPRENEURIAL CENTRE, UNIPORT	FEMALE



CERTIFICATE OF PARTICIPATION

This is to certify that

has successfully completed a novel 5-Day (7th November – 11th November 2022)

Workshop on Intellectual Property Management, Technology Transfer and Entrepreneurship

Organized by the **Africa Centre of Excellence in Public Health and Toxicological
Research (ACE-PUTOR)**, in partnership with
**The Intellectual Property and Technology Transfer Office (IPTTO) and Centre for
Entrepreneurship, University of Port Harcourt**



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