

U.S. patent holder featured in Harvard's Smithsonian/NASA Astrophysics Data System, Dr. Berg P. Hyacinthe held several positions at County and State levels of the U.S. Government in the Information Technology arena. He has been featured in conferences held at the U.S. Naval Postgraduate School, Monterey (author); Defence Academy of the United Kingdom, Shrivenham (invited session Chair); and National Defense College, Helsinki (session Chair).

In academia, Dr. Hyacinthe also held several high profile scientific positions around the world. He notably served as Assistant Professor and Scientific Advisor to Taibah University's Strategic Science & Advanced Technology Unit, Saudi Arabia. He notably served as Faculty member of the State University of Haiti's School of Law and founding Director of the Research Center for Geospatial Intelligence. He supervised several undergraduate and graduate works, including a doctoral thesis at "Université de Toulouse-Capitole" in France.

His research agenda is set at the triangular intersection of law, national defense and security, and technology, with special emphasis on ethical and legal implications of the widespread adoption and use of emergent digital technologies in armed conflicts.

GOAL

Contribute to the body of knowledge dedicated to the exploitation of safer digital devices and more secure information networks, according to relevant legislations and policies, as they relate to the use of emergent technologies in a variety of settings, with current focus on: (1) interstellar defense and security for the survival of *Homo sapiens* through space migration; and (2) emergent airborne pathogens and AI powered bio-inspired weapon systems.

ACADEMIC/RESEARCH POSITIONS HELD

- Director & Founder of the Geneva Interstellar Institute of Technology, France-**Current**
- Distinguished Research Scientist, Université-Quisqueya-University, Haiti -**Current**
- Chief Scientist/R&D Director, Factoriael Technologies Consulting, France-**Current**
- Post-doctoral Researcher, Université de Paris, (CERSA-CNRS), France
- Post-doctoral Researcher, Université de Paris, Vincennes, France
- Assistant Professor, Taibah University, Saudi Arabia
- Deputy Director and Full Professor, School of Graduate Studies, State University of Haiti
- Founding Director, "Centre de Recherche en Intelligence Géospatiale"/State University of Haiti
- Teaching Assistant, Florida State University, USA
- Computer Specialist and IT Supervisor, State University *Florida Gulf Coast*, USA.

EDUCATIONAL QUALIFICATIONS

- **Post-doctoral research:** Cyber law, International Relations, Cybersecurity, "Cyberguerre"
- **Ph.D.** Information Studies: Cyberwarfare; Social Informatics; Emergent Technologies
- **Master:** Educational Technology; Persuasive Technologies; Psychology/Cyber-conditioning
- **Undergraduate:** Computer Science and Engineering | Information Systems | Accounting | Linguistics.

AWARDS AND HONORS

- Two U.S. patents granted (Public Health; Defense & Security; Public Safety; Emergency Rescue)
- Golden Key Honor Society, Florida State University (USA)
- French Government Scientific Award "Compétences et Talents '2008", Paris, France
- State of Florida Scholar Award, Florida State University (USA)
- Founding member of the UEH-UniQ Doctoral College of Haiti c/o French Embassy (UNDP/AUF)
- Founding Director of the Research Center for Geospatial Intelligence, State of Haiti/French Government
- Effective transition from E-Governance project into E-governance Unit, Prime Minister's Office (Haiti).

FIELDS OF INTEREST

- Lab-on-Chips & BIOMEMS| Emergent Technologies | Cyber Law | Cybersecurity | Cyber-conditioning | Smartphones-as-Medical Devices| Cyber-conditioned Defense & Security| Medical Diagnostics| Telemedicine|
- Interstellar Law | Interstellar Migration | Space Tourism (security and safety) | Foresight Intelligence.

CURRENT PROFESSIONAL POSITION

- Chief Scientist, Factoriael Technologies, France
- Research Fellow, Quisqueya University, Haiti

PERTINENT WORK EXPERIENCE

- Head Scientist, Factoriael Technologies and Research Unit (France)
- Doctoral Researcher at the CERSA-CNRS, France
- Assist. Prof. & Scientific Advisor, Taibah University's Strategic Science & Advanced Technology Unit (SA)
- Full Professor, State University of Haiti
- Advisor to Prime Minister of Haiti, State of Haiti
- Advisor to Haitian Parliament (Senate)
- Chief of the E-Governance Unit, Prime Minister's Office
- Deputy Director, School of Graduate Studies, State University of Haiti
- IT Specialist, State University of Florida (FGCU) (USA)
- IT Supervisor, Collier County Government (USA)
- Teaching Assistant to Col. Daniel Phelps (Florida State University) (USA).

SELECTED PUBLICATIONS

PATENTS GRANTED:

Hyacinthe, B. (2006). System and Device for Prevention and Neutralization of Bioactive Substances and Generating an Aroma-producing Substance. United States Patent and Trade Office, VA. No. US 60/700,700,708.

Hyacinthe, B. (2005). Emergency Rescue Vehicle. United States Patent and Trade Office, VA. No. US60/634,637.

PATENT PUBLISHED:

Hyacinthe, B. (2004). Universal Cellular Circuit Board. United States Patent and Trade Office, VA. US-60/601658035.

PATENTS FILED:

Hyacinthe, B. (2018). Smartphone case-embedded system and device for prevention and neutralization of bioactive substances and generating an aroma-producing substance, United States Patent and Trade Office, VA. No. US-62/689, 091.

Hyacinthe, B. (2006). Apparatus and Methods to Suppress Fluidic Diffusion of Unwanted Substances in Standard Systems, Nano-devices, and Bio-microelectromechanical Systems. United States Patent and Trade Office, VA. No. US-60/814320.

BOOKS & THESES:

Hyacinthe, B. (-). *La notion juridique de cyberguerre / On the juridical notion of cyber warfare*, CERSA-CNRS, Université Paris II, Panthéon-Assas School of Law (unpublished).

Hyacinthe, B. (2017). *Géocyberstabilité: Pacification cyber-conditionnée des conflits en Relation internationales*. Thèse de doctorat co-dirigée à l'Université de Toulouse, France (thèse.fr).

Hyacinthe, B. (2010). *Cyber Warriors at War*. Xlibris ed., Indiana, 240p.

Hyacinthe, B. (2007). *Users' adoption of emergent technologies: "Towards an acceptable model for safer cyber-assisted olfactory information exchanges in standard, micro, and nano systems."* Florida State University Electronic Theses and Dissertations System, Tallahassee, Florida, etd-07162007-171934.

DOCTORAL THESES AND BOOKS:

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DOCTORAL THESES AND BOOKS:

Hyacinthe, B. (2012). Law of Armed Conflicts applied to i-Warfare and Information Operations: How and under what legal framework should surgical NATO and U.S. military drone strikes be conducted? *Proc. of the 11th European Conference on Information warfare and security*, Laval, France.

Hyacinthe, B. and Fleurantin, L. (2010). Information Operations in Space, Absence of Space Sovereignty, Growing Number of Nations Looking Spaceward: Threats and Fears Concerning Established Space-based Military Powers. *Proc. of the 5th European Conference on Information Warfare and Security*, The Air Force Institute of Technology, Wright-Patterson AFB, Ohio, USA.

Hyacinthe, B. (2009). Warning to Information Operations Planners: Ignore the Information Seeking Patterns and the Legal Protection of Information Warfare Victims in the Middle East at Your Peril, *4th International Conference on i-Warfare and Security*, 27, 27-34.

Hyacinthe, B. and Fleurantin, L. (2008). Initial Supports to Regulate Information Warfare's Potentially Lethal Technologies and Techniques. *3rd International Conference on i-Warfare and Security*, Peter Kiewit Institute, University of Nebraska Omaha, USA.

Hyacinthe et al. (2007). Lethal Mutation versus Messianic Singularity: "A New Multidimensional Perspective on the Reciprocal Function of Digital Information Technologies as Offensive and Defensive Weapon Systems." *6th European Conference on Information Warfare and Security*, Defence Academy of the United Kingdom, Shrivenham, UK. pp. 99-108.

Hyacinthe, B. and Anglade, Y. (2007) "Conceptual Design of a Microfluidics Suppressor to Protect against Potentially Lethal Printing Devices: A Scenario-Based Physical Cyber Security Measure", *IC IW 2007: 2nd International Conference on i-Warfare and Security*, U.S. Naval Postgraduate School, Monterey, California. pp. 101-110.

Hyacinthe, B. (2006). Autonomous Biochemical Decontaminator (ABCD) against Weapons of Mass Destruction. SPIE, vol. 6021:1-16. Orlando, USA.

Hyacinthe, B. (2006). Hidden Global Security Threats and Emerging Technologies Exposed through Information Warfare Paradigms. *Proc. of the 5th European Conference on Information Warfare and Security*, National Defence College, Helsinki, Finland, pp. 101-110.

Hyacinthe, B. (2006). Methods and Apparatus for the Production of Aromatic and Gustatory Information. JDCL, Chapel Hill, NC. ACM 1-59593-354-9.

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