

## SOFIA ALONSO BORREGO

Dr. Sofía Alonso Borrego has 26 years experience in scientific research and she is working in the National Archives of the Republic of Cuba since 2003 as chief of the Laboratory of Preventive Conservation. Since then, she has been conducted researches on the following topics: the diagnosis of the conservation status of documentary heritage using statistical methods, influence of the air quality of the repositories of the National Archives of Cuba on the deterioration of the documentary collections and on the health of staff, the biodeterioration caused by fungi on special media (photographs, films, videos, etc.), biodeterioration caused by insects, control of biodeterioration by using biocides obtained from plants.

In the past 6 years, she has conducted 4 national and 11 international projects. She has received numerous postgraduate courses, including courses that have given some foreign experts about the management and identification of risks for the prevention of disasters in cultural heritage and the recovery of damaged documents by disasters.

It is the principal teacher of the course "Preventive Conservation of Documentary Heritage" which has been provided in Cuba and abroad at different educational levels.

She has over 60 presentations at national and international events and 30 publications in scientific journals and books, including 17 in the above topics. Among the most relevant are:

- Biofouling and biodeterioration in materials stored at the Historical Archive of the Museum of La Plata and at the National Archive of the Republic of Cuba. *Colloids and Surfaces B: Biointerfaces* 85: 229-234, 2011.
- The quality of air at archives and biodeterioration of photographs. *International Biodeterioration and Biodegradation* 64: 139-145, 2010.
- Diagnóstico del estado de conservación de colecciones fotográficas del Archivo Nacional de la República de Cuba. (Diagnosing the state of conservation of photographic collections of the National Archives of the Republic of Cuba). *Revista CODICE* 5(1): 67-82, 2009. *Journal of the University of La Salle, Colombia*.
- Book: *Gestión de riesgos para la prevención y mitigación de desastres en el Patrimonio documental (Risk management for the prevention and mitigation of disasters in the documentary heritage)*, 2009. ISBN: 978-9941-020-71-7. Available at: <http://www.calameo.com/books/00034521439da46118bd8>.
- Biocide activity of natural extracts against microorganisms affecting archives. *Boletín Latinoamericano y del Caribe de Plantas Medicinales y Aromáticas (Bulletin of Latin American and Caribbean of Medicinal and Aromatic Plants) (BLACPMA)* 7(1), 25-29, 2008.
- Natural products isolated from plants used in biodeterioration control *Pharmacologyonline* 3: 537-544, 2006.