**Requirements for Submitting an Abstract**

Use the abstract format provided in the *example* below.

1. Title: Submit the title in upper and lower case, bold font, capitalizing each word. Do not include acronyms.

2. Author(s): Use full first name for the author's first name. Use middle name initials. Underline the name of the presenting author. Capitalize all letters of each last name

3. Affiliation(s): Enter the affiliation in upper and lower case. Example: University of California, Berkeley. **Do not include department name or full address.**

4. Abstract: Present the abstract as one concise paragraph. Do not include author names or affiliations. Credits (if any) should be placed at the end of the text of the abstract. Use an asterisk as an indicator of the credit.

5. Length of Abstract: Minimum length is 200 words and maximum length is 2400 characters.

6. Presenting Author Address: Include the complete mailing address and correct e-mail address.

**Additional Information**

1. Abstracts that suggest commercialism, either through writing style or trade names, may be rejected. Abstracts should not contain tables, figures, structural formulas, or bibliographic references. The substance of the abstract must not have been presented or published previously. Do not use promissory statements, such as "will be discussed," "will be studied," or "will be analyzed". A well-written abstract includes purpose, approach, results, and significant conclusions.

2. The Technical Program Committee's decision to accept or reject an abstract will be based on:

a. Purpose and title of the work: Is the purpose clearly stated and are the issues current? Is the title descriptive of the abstract?

b. Application or relevance to the meeting topic: Is the work relevant or directly applicable?

c. Conclusions: Are the conclusions clearly articulated and based on an appropriate data?

d. Appropriateness of material for presentation: Material which may be considered unprofessional or vulgar will be rejected. Material will not be rejected simply because it may be controversial.

*Prepare your abstract using the same format as provided in the* ***SAMPLE ABSTRACT****:*

JOHNSTONE Randolfe Q. University of the Pacific Coast, Seaside Shells, Oregon, USA

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**A Baysian Statistical Analysis of the Dose-response Correlation with Cancer Incidence for Native Pacific Islanders Exposed to Radiation from Atomic Weapons Testing Fallout\***

The purpose of this study was to determine whether the dose-response relationship between the fallout gamma plus beta radiation components of atomic weapons testing in the South Pacific Ocean during the period 1955 to 1962 correlated with incidence of leukemia, lymphoma, and multiple myeloma in Native Pacific Islanders. We analyzed death certificate records for 2,793 Native Pacific Islanders of ages between 10 years and 50 years during the period 1955 to 1962 and who were exposed unintentionally to fallout from the TOAD-5, BIG BIRTHA, and NICKEL KIM nuclear weapons tests. Dosimetry was assessed indirectly by measuring surface (top 1-cm) strontium-90 concentrations in beach sand on islands populated by the exposed populations, corrected for decay post-detonation. Using advanced Baysian algorithms, we found no statistical correlations between estimated skin dose based on Sr-90 sand concentrations and incidence of leukemia, lymphoma, and multiple myeloma. However, we did fine a linear correlation between skin dose and incidence of metastatic melanoma (p≤0.001), which is relatively rare among Native Pacific Islanders, with an observed incidence of 0.00329 cases per Gy skin dose in the dose range 0.5 to 2.9 Gy (at the basal cell layer, averaged over 10 cm sq). This research provides statistical evidence for a linear, no-threshold dose-response relationship for melanoma incidence with skin dose from mixed beta/gamma emitters after nuclear fallout. (\*Study sponsored by the Gates Beneficent Fund for Pacific Islander Health).

Abstract submitted by

**Full Name:**

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