Editorial

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Thanks to the Internet, one of the many privileges of the present-day world is the ability to apply, celebrate, cite, enjoy, learn, share and spread the intellectual wealth of fellow scientists. Since the writing of my last Editorial,¹ the world has witnessed the passing away of a brilliant educator, engineer, material scientist and researcher, Professor Mildred (Millie) S. Dresselhaus, the ‘queen of carbon science’, on 20 February 2017 (Photograph 1).^{2,3} Next year marks the 50th anniversary since Millie became the first woman at Massachusetts Institute of Technology, MA, USA, to attain the rank of full tenured Professor.⁴ Millie was the first woman to win the National Medal of Science and Engineering⁵ and the first solo recipient of a Kavli Prize.⁶

Table 1 is taken from the Google Scholar webpage⁷ of Professor Mildred Dresselhaus.

Table 1. Citations for Professor Mildred Dresselhaus

Citation indices	All	Since 2012
Citations	156 263	68 240
h-index	167	108
i10-index	877	571

Millie and her co-worker’s book, *Physical Properties of Carbon Nanotubes*,⁸ has been cited in 8739 research papers/related references. The top six citations refer to Millie’s work on carbon-related materials and structures.⁷

At the 2017 146th Annual Meeting and Exhibition of the Minerals, Metals & Materials Society, held in San Diego, CA, USA, attendees gathered to celebrate the contributions of two other fellow scientists.⁹

Frank W. Clinard^{10–12} will be fondly remembered for his contribution to radiation damage in materials at Los Alamos National Laboratory, NM, USA. A world authority on radiation damage in solids and an excellent mentor, Frank was a Fellow of the American Ceramics Society (Photograph 2).

Eric L. Cross,^{13–15} Founding Member of the Materials Research Laboratory at Pennsylvania State University, PA, USA, will be fondly remembered for his intelligence, vision, wit and humanity. A world authority on ferroelectrics, Eric was a member of the US National Academy of Engineering (Photograph 3).

Millie, Frank and Eric will continue to be role models to fellow educators, engineers, scientists and students from across the World.

Photograph 1. Professor Mildred Dresselhaus

Photograph 2. Frank W. Clinard

Photograph 3. Eric L. Cross

The interest in the allotropes of carbon has been historic¹⁶ although only ~0.025% of the Earth's crust is carbon.¹⁷ The interest in carbon can be attributed to its ability to form compounds with most elements and its structure–property correlations in many natural forms; for example, the high radiation hardness (tolerance to particle radiations), ability to dope, high thermal conductivity and high hardness of diamond in contrast with the high electrical conductivity and high thermal insulating properties of graphite. Since the discovery of the Buckyballs, carbon nanotubes and graphene – interest in, potentially, other forms of carbon has been on the radar for material scientists and engineers. Recently, a new form of carbon, Q-carbon,¹⁸ has been discovered.

Since the inception of *Emerging Materials Research* six years ago, the journal has grown significantly. The present issue contains thirty one peer-reviewed papers representing various inter-disciplinary subjects in materials science and engineering. The Editor is thankful to the authors, readers, reviewers and the Editorial Board for their contribution and support.

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