Contributor Profiles:

Toshio Seimiya

Toshio Seimiya was born in Tokyo on March 30, 1910, which means he will have celebrated his 96th birthday by the time this issue appears. When he was fourteen years old, he learned about the Theorem of Pythagoras, and promptly discovered new proofs. At the age of sixteen, he discovered the following theorem, a generalization of Simson’s Theorem, which became known as Seimiya’s Theorem.

**Theorem.** Let $P$ and $Q$ be points on the circumcircle of $\triangle ABC$, and let $D$, $E$, and $F$ be the reflections of $P$ with respect to the lines $BC$, $CA$, and $AB$, respectively. Let $X$, $Y$, and $Z$ be the intersections of $QD$, $QE$, and $QF$ with $BC$, $CA$, and $AB$, respectively. Then $X$, $Y$, and $Z$ are collinear.

In 1931 Seimiya entered the Tokyo Imperial University (now Tokyo University). When he graduated in 1934, he became a mathematics teacher at the military academy, from which he retired in 1945. In 1949 he was appointed as Professor at Tokyo Gakugei University, where he remained until retiring in 1973, after which he was named Professor Emeritus.

While he may have retired in 1973, Seimiya has never really left the world of mathematics, specifically geometry. As Editor-in-Chief of *CRUX with MAYHEM*, I always look forward to a letter from him. Each letter contains either a new set of proposals or one or more solutions to earlier problems posed by others. The proposals he submits to us invariably elicit glowing remarks from our Problems Editors such as “How does he do it?!”, or “We have yet again a wonderful set of original and very interesting problems from Seimiya!” On the other hand, his solutions to the proposals of others are always correct and elegantly presented. Our Problems Editors need to continually exercise caution that we do not simply use his solutions all the time, in order to be fair to all solvers.

I am sure I speak on behalf of all lovers of geometry when I say “May you live long, Toshio, and continue to submit problems for the rest of the world to enjoy!”