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**Tommy Murphy\*** (tmurphy@ulb.ac.be). *Submanifolds and Riemannian foliations of symmetric spaces.*

In submanifold theory one aims to classify submanifolds of a given manifold satisfying local geometric conditions. In contrast Riemannian foliations are global objects, but for Riemannian symmetric spaces there is a notable interplay between these two concepts. I will outline something of this relationship, focusing mostly on spheres and complex projective space for simplicity. In particular, I will answer a question of Alfred Gray classifying the complex submanifolds of  $\mathbb{C}P^n$  arising as the exceptional leaves of a Riemannian foliation of maximal dimension. Complex Riemannian foliations of open subsets of Hermitian symmetric spaces will be classified. The corresponding situation in some natural generalizations of Riemannian symmetric spaces will also be discussed. (Received September 22, 2012)