California State University SAN MARCOS

Division of Academic Affairs
GRADUATE STUDIES & RESEARCH

RESEARCH Seminar Series



Kang Du

ABOUT THE PRESENTATION

Strong conventional magnets of any scale consist of rare-earth elements, which are environmentally and economically costly to mine and refine. In contrast, earth-abundant elements, such as iron ions, are much less magnetic. To address this dilemma, my group explores a strategy of "bundling" moderately magnetic ions to engender strong magnetism. Specifically, I will showcase exciting examples developed by CHEM & BIOCHEM students. They built rigid molecular architectures to induce strong interactions between two iron ions, such that they behave as one strongly magnetic center. These proof-of-principle studies not only reveal mechanisms for developing bulk non-rare-earth magnets, but also inspire biomedical applications, such as MRI contrast agents

Date December 8, 2026 **Time** 12:00 - 12:50 pm

LOCATION ACD 102

Developing Non-Rare-Earth Molecular Magnets

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Research Series