NORTHERN ARIZONA UNIVERSITY **DEPARTMENT OF BIOLOGICAL SCIENCES FLAGSTAFF, ARIZONA, U.S.A. 86011-5640**

APPROVAL FORM FOR Ph. D. DISSERTATION PROSPECTUS

This form is submitted to the Graduate College before, or along with, the student's application for admission to candidacy.

CANDII	DATE'S NAME:	Matthew K. Lau
Brief Sta	tement of the res	arch problem:
multi-sp research merger of more con has been species p only utili synthesis illucidate will pote species.	Understanding the interplay between ecological and evolutionary dynamics in the context of nulti-species communities is a major research frontier. This is based on the now sizeable body of esearch showing community and ecosystem level impacts of genetic variation. Recently, the nerger of findings from the fields of community genetics and network ecology has lead to a new, nore complete perspective of evolutionary ecology. The primary contribution of network ecology has been the development of a perspective that enables the study of structures beyond isolated species pairs; however, studies of the influence of genetic variation on network structure have only utilized phylogenetic patterns at the species level. The goal of this dissertation is to synthesize the findings and approaches of both community genetics and network ecology to flucidate how intra-specific variation influences the structure of ecological networks. This work will potentially reveal mechanisms for evolution to occur in complex networks of interacting species. Members of Committee:	
		, Program Committee Chair
		, Department Chair
	Date:	
	Distribution of this fo	m·

- a. Associate Chair for Graduate Studies (Department)
- b. Dean of Graduate College
- c. Student

- d. Original: Departmental File
- e. Student's Graduate Advisor