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Starburst galaxies are characterized by high central infrared luminosities that are attributed to intense episodes of star formation. High resolution mid-infrared observations of these systems can be a powerful tool in understanding the causes of starbursts and their relationship to other phenomena, such as active galactic nuclei (AGN). I will use an 8-25 micron imager and spectrometer called OSCIR, which was developed at NASA Marshall Space Flight Center and the University of Florida by Dr. Charles Telesco, to obtain images and spectra for a representative sample of starburst and starburst/AGN galaxies at the NASA Infrared Telescope facility on Mauna Kea in Hawaii. The two main goals of this project are: (1) to explore the morphologies of starburst and starburst/AGN galaxies and to determine how bars and dynamical resonances effect the distribution and properties of gas in the starburst/AGN regions; and (2) an examination of the connection between AGN/ starbursts and the global properties of the host galaxies.