

DIVISION OF BIOMEDICAL  
ENGINEERING

- [Prospective Students](#)
- [Education](#)
- [Admissions](#)
- [Research](#)
- [People](#)
- [News](#)
- [Events](#)
- [Employment & Internships](#)
- [Facilities & Resources](#)
- [Contact BME](#)

[Go to DSE Home](#)



OHSU QUICK LINKS

- [Academic Technology](#)
- [Departments & Divisions](#)
- [Find Degree Programs](#)
- [Academic Calendar](#)
- [Academic Affairs](#)

BME People

## Donald Duncan

**E-mail:** [donald.duncan@bme.ogi.edu](mailto:donald.duncan@bme.ogi.edu)

**Phone:** 503-418-9316

**Fax:** 503-418-9311

**Office**

*Alternate Office at West Campus*

Jack Murdock Building: Room 533

*Primary Office at Center for Health and Healing*

3303 SW Bond Avenue

Mail code: CH13B

Rm #13047

**Department(s)**

*Biomedical Engineering*

**Research Interests**

General research efforts are in the fields of physical and statistical optics. Included is the study of laser speckle techniques for assessment of material properties including the development of processing algorithms for inferring motion and strain from the speckle patterns. Applications include diagnosis of skin cancer and process control for cultured tissues. Another area of study is scatter from tissues and suspensions, specifically in the use of polarization effects to reveal underlying structure of the scatters and temporal effects for assessment of material properties.

**Research Project(s)**

*Laser speckle measurements of mechanical properties*

*Propagation of partially coherent fields*

**Research Group(s)**

*Biomedical Optics*



**OHSU RESOURCES**

**ABOUT OHSU**

**PATIENT RESOURCES**

**RESEARCH**

**EDUCATION**

**FOR EMPLOYEES**

