

**Acoustic and Ultrasonic technology Group  
of Acoustic and Acoustics Electronics Department of NTUU “KPI”**

**The area of research** is development of methodology, algorithms, software and hardware for acoustics measurement a mechanical and acoustical characteristics building material and construction. **Ultrasonic location.** Theory development beam electronic steering for plane area oscillators.

**Actual interests in educational activity**

Electro acoustic information's systems.  
Acoustic measurement and control process technology.  
Acoustic signal analysis and processing

**Scientific directions**

Acoustic field analysis, acoustic isolation measurement, sounds absorption measurement.  
Simulation of the field of matrix antennas with electronically controlled ultrasonic beam.

**Sergii Kozeryk**, PhD, Associate Professor.

*Courses:* “ Acoustic device and systems ”, “Acoustic measurement and control methods”,  
“ Acoustic informational and measurement systems ”,

*Research:* theory and applications of acoustic field analysis, acoustic insulation measurement, sound absorption measurement. Ultrasonic location. Formation an acoustic near-field by area oscillators. Beam electronic steering.

He is an author of more than 30 publications, 8 textbooks. He is head of scientific laboratory “Acoustic measurement and control a mechanical and acoustical characteristics building material and construction ”

**Alexandr Drozdenko**, assistant lecturer, 4<sup>th</sup> year PhD student.

*Courses:* " Acoustic measurements", "Construction of acoustic equipment and systems".

*Research:* acoustic characteristics of materials and structures measurement, acoustic methods of nondestructive testing.

He trained in scientific research Gidropribor institute.

He is an author of more than 15 publications.

**Konstantin Pylipenko**, assistant lecturer 2<sup>nd</sup> year PhD student.

*Courses:* "Acoustic signal processing", "Medical image processing", “Stochastic signal processing”.

*Research:* statistic models of acoustic noise signals, methods of signal processing, probability theory.

He is an author of more than 12 publications.