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DIRECTORY OF ACOUSTICIANS IN WESTERN EUROPE

W. J. Trott

Office of Naval Research
London, England

March 1968

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**OFFICE
OF NAVAL
RESEARCH**

**BRANCH
OFFICE
LONDON
ENGLAND**



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AMERICA**

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DIRECTORY OF ACOUSTICIANS IN WESTERN EUROPE

W. J. TROTT

MARCH 1968

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DIRECTORY OF ACOUSTICIANS IN WESTERN EUROPE

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INTRODUCTION

This Directory is a revision of Directory ONRL-D-10 published by Donald Ross in November, 1965. Corrections and additions to make the Directory current have been obtained through visits in Europe and attendance at meetings of the British Acoustical Society. Two new sources of information on British scientists will be available when this Directory comes out. They are

Scientific Research in British Universities and Colleges, 1966-67

Volume 1: Physical Sciences 40 shillings

available from British Information Service

845 Third Avenue
New York, New York, 10022
and

Industrial Research in Britain 6th edition, 1967.

Advisory Editor: I.D.L. Ball

Harrap Research Publications
182 High Holborn
London, W.C.1.

Errors, omissions, and changes are inevitable in a directory of this scope and are self-perpetuating unless rectified. Therefore, American scientists can provide a useful service by calling to our attention any such defects. Comments should be sent to the Scientific Director, Office of Naval Research Branch Office, Box 39, FPO New York, N.Y. 09510. (An ordinary postcard will suffice.)

AUSTRIAINNSBRUCK

Physikalisches Institut
Universität Innsbruck
Schöpfstrasse 41

Tel: 26741

Dr. Josef Kolb
Dr. Josef Gode

Applications of ultrasound to industry
Acoustic zone plates

VIENNA

Staatl. Phys-Technischen Versuchsanstalt
für Wärme- und Schalltechnik am
Technologischen Gewerbemuseum
Währingerstrasse 59
Vienna 9

Friedrich Bruckmayer
Judith Land

Architectural acoustics and noise control
Traffic noise problems

Institut für Niederfrequenztechnik
Technischen Hochschule Wien
Gusshausstrasse 25
Vienna 4

E. Hirschwehr

Architectural acoustics

"
IBM Österreich Forschungsgr.
Parkring 10
Vienna 1

Ernst H. Rothauser
Marian Fleck
Erwin Paulus
Kurt Bandat
G. Urbanek

Speech synthesis
"
"
"
Noise control

BELGIUMBRUSSELS

Service Physique Appliquée 1
Ecole Polytechnique
Université Libre de Bruxelles
50, Avenue F-D. Roosevelt

Tel: 49-00-30, ext. 2802

Dr. T.G. Korn
Jacques Hougardy
Jean Bosquet

Magnetic recording, psychological acoustics
" " " "
Room acoustics

Institut des Constructions Civiles
Université Libre de Bruxelles
50, Avenue F-D. Roosevelt

Tel: 49-00-30, ext. 2756

Dr. André Homès

Elastic stresses, approach of fatigue on
ultrasonic propagation

Laboratoire de Psychologie
Université Libre de Bruxelles
115 Ave. Adolphe Buyl
Brussels 5

Tel: 48-65-10, ext. 2631

Dr. Eliane Noirot

Ultrasonic cries of baby mice

Centre Scientifique et Technique
de la Construction
5, rue de la Violette
Brussels 1

M. Iagros, Director
Prof. A. Raes, Acoustics Consultant

Building acoustics

Ingenieur Civil au Fonds d'Etudes
et de Recherches relative au
Problème de la Sécurité Routière
101 Rue Royale
Brussels 1

Victor de Coster

Airport and aircraft noise problems

Institut National du Logement
86, rue Saint Lazare
Brussels

Léon Montfort

Architectural acoustics

Institut de Mécanique Appliquée
Institut d'Aéronautique de l'Université
Brussels

André L. Jaumotte

Acoustic detection of boiling

Union Européenne de Radiodiffusion (UER)
32 Avenue Albert-Lancaster
Brussels 18

Henri Mertens

Stereophony, radiation theory

513 Avenue Brugman
Brussels 18

Tel: 44-33-79

Prof. Auguste C. Raes

Architectural acoustics

BELGIUM (Cont'd)LIÈGE

Laboratoire d'Electroacoustique
Institut Montefiore
Université de Liège
33 rue Saint Gilles

Tel: 32-31-67

Prof. Joachim Frenkiel, Director
Jacques Dendal, Asst.

Daniel T.E. Comwin
Claude Lhermursux
Félix Spronck

Marcel Libert

Electroacoustics
Electro and architectural acoustics,
noise control
Artificial ear
Techniques of absorption measurements
Transmission of acoustic filters, measurements
Electroacoustic measurements

LOUVAIN

Instituut voor Lage Temperaturen en Technische Fysica
Université de Louvain
Naamestraat, 61

Tel: (016) 228-76

Prof.Dr. A. Van Itterbeek, Director

Dr. Henri Myncke
Dr. Hans Zink
Dr. W. Van Dael
Olav Verbeke
Dr. Tapankumar K. Bose
Willy Grevendonk
André Cops

Low-temperature physics, relaxation phenomena
at low temperatures
Building and ship acoustics
Propagation in gases and liquids
Sound propagation in ionized gases
Semiconductors at low temperatures
Relaxation times in gases
Relaxation times in liquids

DENMARKCOPENHAGEN

Department of Applied Mechanics
 Royal Technical University of Denmark
 Rensgade 13
 Copenhagen, K

Prof. Eyvind Fredericksen

Diesel engine silencing

Otological Department
 Rigshospitalet

Dr. Knud Terkildsen

Hearing, audiology

Danish Defense Research Board
 Østerbrogade Kaserne
 Copenhagen Ø

Tel: TRIA 5707

Electronic Communication Division
 Mr. Sven Falck Larsen
 O.V. Olesen
 A.M. Tenkelsen
 I. Gilberg

Underwater sound, sonar
 Propagation and noise calibration
 " " " "
 " " " "

Telefon Fabrik Automatic A/S
 Amaliegade 7

J. Steen Petersen
 Kaj Albrechtsen

Telephone acoustics, artificial mouth

Telecommunications Research Laboratory
 Borupsallé 43
 Copenhagen N

Dr. Asger Kjerbye Nielsen

Telephone acoustics

LYNGBY

Laboratoriet for Akustik
 Danmarks Tekniske Højskole
 Lundtoftevej 100
 Kgs. Lyngby

Tel: (01)- 88 16 22

Prof. Dr. Fritz Ingerselv, Director

Electroacoustics, building acoustics,
 organ pipes
 Electroacoustics, loudspeaker systems
 Non-linear distortion studies
 Absolute calibration of microphones
 Building acoustics

O. Juhl Pedersen, Asst.
 S. Boel Pedersen
 Knud Rasmussen
 Jørgen Kristensen

Laboratoriet for Teknisk Fysik
 Danmarks Tekniske Højskole
 Lundtoftevej 100

Prof. R.E.H. Rasmussen, Director
 S.J. Gjendal

Ultrasonics

Statens Byggeforskningsinstitut (Danish National Institute of Building Research)
 Lundtoftevej 7
 Kgs. Lyngby

F. Michael Strumpf

Plumbing noise

DENMARK (Cont'd)NAERUM

Brueel and Kjaer A/S

Dr. Per Br  el
Dr. Viggo Kjaer
Jens Trampe Broch
Holger Larsen
P. E. M  ller Petersen
Gunnar Rasmussen

C.G. Wahrman
Karl E. Kittelsen
P. Wilhjelm
Frede Sk  de
J  rgen Berg

Acoustics measurements

Random vibration
Analyzers
Random vibration
Artificial ear, miniature microphones,
accelerometers
Filters and analyzers
Random vibration and microphones
Artificial mouth
Wind screens, miniature anechoic chamber

FINLANDHELSINKI

Tekniska Högskolan
Abrahaminkatu 1-5

Tel: 30-771

Department of Electrical Engineering

G. von Salis

Electroacoustics

Acoustical Laboratory

Eero Lampio

Electroacoustics

Byggnadstekniska Laboratoriet
Lönrotinkatu 37

Tel: 11-151

Heimo Ratu, Director

Building acoustics, noise control

Finnish Broadcasting Co.
Pohj. Makasiinik 6

Paavo Arni
Tor F. Ahlstedt
Juhani Borenus

Studio and broadcast acoustics

FRANCEARCUEIL

Compagnie Alcatel
1 rue Aristide Briand
Arcueil (Seine)

M. Robin, Head of Naval Applications

Active and passive sonar and positive ranging

BELLEVUE

Centre Nationale de la Recherche Scientifique
Bellevue (S-et-O)

Marc Bruma
Claude Magnie

Generation of ultrasound with lasers
Propagation of ultrasound in liquids under pressure

Mohamed Ezz-El-Arab

CAGNES-SUR-MER

Compagnie Générale de Télégraphie sans Fil
Chemin des Travaux

Brice Derouet
Pierre Tournois

Underwater sound re torpedoes
" " " "

CHATILLON-SOUS-BAGNEUX

Office National d'Etudes et de Recherches Aérospatiales (ONERA)
29-39 Avenue de la Division Leclerc
Chatillon-sous-Bagneux (Seine)

Tel: Alesia 50-80

Dr. Pierre Liénard, Chief of Acoustics Division
Michel Kobrynaki
Jaques Hay
M. Benard
J. Lambourion
Maurice Planshis
Jean-Pierre Guiraud

Measurement of high intensity noise
Jet and rocket noise
Microphones for high level noise
Calibration at high intensities
Noise measurements at high temperatures
Sonic boom, aerodynamics

CHATOU

Electricité de France
Centre de Recherches et d'Essais de Chatou
6, Quai Watier
Chatou (S-et-O)

Tel: 966-35-20

M. Hug. Asst. Director
M. Chevalier

Cavitation and noise of turbines
Tests of turbines and pumps, including cavitation
Cavitation and noise
Hydraulic cavitation
Cavitation in turbomachinery

M.J. Rata
M.J. Beaufrère
M. Pierre Cormault

FRANCE (Cont'd)CLAMART

Electricité de France
Laboratoire d'Acoustique
17 Avenue de la Libération
Clamart (Seine)

M. Jean Mattsi, Chief of Laboratory

André Jaudet
Lucien Autesserre
Paul François
André Coquard
Jacques Delcambre

Noise of electrical machinery and noise control
Measurement of short reverberation times
Industrial noises
Industrial noises
Transformer noise calculations
Traffic and tunnel noises

ISSY-LES-MOULINEAUX

Centre National d'Etudes des Télécommunications (CNET)
3 Avenue de la République
Issy-les-Moulineaux (Seine)

Tel: MIC 0469

Dr. Leonid Pimonow

Speech analysis and synthesis

JOUY-EN-JOSAS

Laboratoire de Physiologie Acoustique
Institut National de la Recherche Agronomique (INRA-CNRZ)
Domaine de Vilvert
78 Jouy-en-Josas (S-et-O)

Tel: 923-63-13

also

Laboratoire d'Acoustique Animale
Ecole Pratique des Hautes Etudes

Prof. René-Guy Busnel, Director
Madame M.-C. Busnel
Dr. (Mme.) A. Lehmann
B. Dumortier
Jean-Claude Brémond
Mlle. Yveline Leroy
A.-J. Andrieu
Albin Dziedzic

Dr. (Mlle.) Gramet
Mlle. J. Giben

Animal sounds and physiology
Insect sounds and birds
Physiology, mice in high intensity sound
Insect sounds
Bird sounds (robins)
Insect sounds
Instrumentation and measurement
Underwater biological noises and porpoise sonar
Bird sounds
Bird sounds

LA GAUDE

Centre Etudes et Recherches IBM France
La Gaude (Alpes-Maritimes)

Pierre Peckels
Vladimir Rizo
René Buron

Speech
"
"

LANNION

Centre National d'Etude des Télécommunications (CNET)
Lannion (Côtes du Nord)

Jean-Baptiste Jacob
Gilbert Ferrieu

Telephone acoustics

FRANCE (Cont'd)LE BRUSC

Laboratoire de Detection Sous-Marin
Le Brusca (Var)

Tel: 94 95 60

Dr. Pierre Foache, Director

Underwater sound, sonar, ocean sound
propagation

Dr. Otto Brandt

Transducers

Dr. Henri Mermoz

Physicist, signal processing, sonar systems

Ing. (Mlle) Ursula Meindl

Ship and submarine noise ranging

Ing. Grinda

Sonar self noise

Ing. Grandvaux

Propagation of sound

ICGM Roux

Surface ship sonars

IPGM J.-C. Benoist

Submarine sonars

ICGM Courret

Variable-depth sonars

J.L. Nicolas

Engineer

MARSEILLES

Centre de Recherches Physique de CNRS
31, Chemin Joseph Aiguier
Marseille 9^e

Tel: 76 12 20

Dr. Théodore Vogel, Director

Applied mathematics, vibrations, acoustics

Prof. L. Sideriadès

Non-linear mechanics

Dr. Y. Jullien

Plate and shell vibrations

Dr. William Bismuth

High polymers, dynamic elastic construction

Dr. Claude Gèzanho

Ultrasonics

Prof. François Canac

Flow visualization, aerosonics,

architectural acoustics

Dr. (Mlle) Marie Merle

Flow visualization, aerosonics

Mlle. Hélène Gavini

Psychoacoustics, pulse perception

Dr. Marc Foti

Noise reduction, airport noise, room

acoustics, shock waves

Dr. Vladimir Gavreau

Hypersonics, infrasonics, automatic control,

servo-systems

R. Blanc

Propagation in high polymers

Benjamin Bladier

Room acoustics transient sounds

J.L. Garnier

Ultrasonics measurements

R.M. Rosenberg

Non-linear vibration theory

Mlle. Delphine Bonseignour

Propagation in high polymers

Guy Duméry

Maurice Jessel

MASSY

Laboratoire de Biochimie et Physico-Chimie
des Céréales (CERDIA)
Institut National de la Recherche Agronomique (INRA)
Le Noyer Lambert
Massy (S-et-O)

Dr. Maurice Degrois

Acoustic cavitation and its effects

Berdj Badilian

" " " " "

(For 10 years prior to June 1965, both men were located in Dr. Busnel's Laboratory in
Jouy-en-Josas).

FRANCE (Cont'd)MEAUX

Realisations Ultrasoniques
9, Chaussée de Paris
Meaux (S-et O)

Richard Marvois

MEUDON

Service des Études
Office de Radiodiffusion Télévision Française (ORTF)
1 rue Marcel Allégot
Meudon (S-et-O)

Tel: OBS 39-38

Jean Pujolle, Assistant Director of Laboratory
Roland Condaminas, Acoustics Department

Formerly electroacoustics
Studio acoustics, stereophony, directional effects

André Keller
Guy Reibel

Jean Guillermin, Special Studies Group
M. Meunier, Electroacoustics Department
M. Bucchini
Henri Chiarucci

Broadcast acoustics, stereophony, studios
Loudspeakers
Loudspeakers and microphone tests
Musical acoustics

NANCY

Ecole Nationale Supérieure d'Électricité et de Mécanique
Université de Nancy
2 rue de la Citadelle

Tel: 52 68 32

Prof. R. Guillien, Director
Dr. (Mlle) Gaulard

Ultrasonic scattering in inhomogeneous media

ORLY-AÉROGARE

Laboratoire de l'Aéroport de Paris
B.P. No. 103
Orly-Aérogare (Seine)

Tel: JUS 51-41, ext. 21-02 and 23-02

M. Roger Lorin, Director

Airport noise, all aspects of airport engineering

M. Gerrard Centau
M. Tissier

Aircraft flyover noise monitoring
" " " "

PARIS

Laboratoire de Recherches Physiques
Faculté des Sciences
Université de Paris (Sorbonne)
1 rue Victor Cousin
Paris V^e

Prof. René Lucas, Director
André Zarembovitch

Acoustic-optical phenomena in solids
Acoustic-optical effects in single crystals

PARIS (Cont'd)

Collège de France
11 Place Marcellin Berthelot
Paris V^e

Dr. René Chocholle
Mlle. Christiane Saulnier
Prof. Lecorre

Laboratoire de Physiologie du Travail
Collège de France
41 rue Gay-Lussac
Paris V^e

Dr. A. Wisner

L'École Supérieure de Physique et de
Chimie Industrielles
10 rue Vauquelin
Paris V^e

Laboratoire de Physique

Prof. René Lucas, Director
Dr. Madame Suzanne Pauthier-Camier
Dr. Jacques Badoz

Laboratoire de l'Electricité Général

Prof. P. Biguard

Laboratoire de Physique
L'École Normale Supérieure du Université de Paris
24 rue Lhomond
Paris V^e

Prof. Y. Rocard, Director
J. Martinais
P. Mechler

Laboratoire d'Acoustique
Faculté des Sciences de Paris (Sorbonne)
8 rue Cuvier
Paris V^e

Emile Leipp
J.S. Lienard
Miss Michèle Castellengo

FRANCE (Cont'd)

Tel: ODEon 83-94

Hearing audiology, masking effects
Hearing physiology of animals
Ultrasonics at extremely high frequencies
(10,000 Mcps)

Tel: ODEon 18-27

Effects of noise and vibration on human
behavior

Tel: GOB 80-64

Physical acoustics
Elastic constants of solids under load
Birefringence in liquid ultrasonic
propagation

Magnetoacoustics, propagation in metals at
low temperatures in magnetic fields

Tel: POR 41-69

Atmospheric and underwater sound propagation
Underwater seismology

Architectural and musical acoustics
" " " "
" " " "

PARIS (Cont'd)FRANCE (Cont'd)

Faculté de Médecine de l'Université de Paris
45 rue des Saints Pères
Paris VI^e

Tel: BAB 00-71

Prof. André Dognon
Mlle. Yvonne Simonot
Dr. Michel Burgeat

(Also at Hospital Lariboisiere, rue Ambroise Paré, Paris XVIII^e)
F. Greyas

Bioacoustics, ultrasonic cavitation

Electrophysiology of hearing

Physiology of hearing

Meteorologie Nationale
1 Quai Branly
Paris VII^e

M. Facy

Long-range sound propagation from explosions

Directeur des Essais du Matériel de la
Société Nationale des Chemins de Fer (SNCF)
20 Boulevard Diderot
Paris XIII^e

Tel: DOR 98-60

Jean R. Colombaud

Railroad noise problems, diesel noise

Ligue Française Contre le Bruit
8-10 rue Delbet
Paris XIV^e

Tel: BLO 40-00

Maitre Louis Bouvier, Secrétaire General

Institut Pasteur
28 rue Docteur Roux
Paris XV^e

Tel: SEG 01-10

Dr. R.O. Prudhomme

Ultrasonic cavitation

Service Technique de la Navigation Aérienne
155 rue de la Croix-Nivert
Paris XV^e

Vital E. Ferry
M. Sapin

Aircraft noise
" "

Bassin d'Essais des Carènes
6 Boulevard Victor
Paris XV^e

Tel: VAU 63 53, 55, 57
LEC 42-00

VADM Roger Emile Brard, Director of model basin
S. Bindel
Jean-François Roy

Propeller cavitation and noise
Turbulent boundary layer (flow noise,
almi-flow)

PARIS (Cont'd)FRANCE (Cont'd)

Service Technique des Constructions
et Armes Navales (STCAN)
8 Blvd Victor
Paris XV^e

Tel: LEC 42-00

Admiral M. Meunier
CDR Pierre Sabathé
M. Belfort
M. de Job
M. Guiot
M. LeRoy
M. Tison

Sonar
Submarine and ship sonar
Torpedoes - St. Tropez
Low-frequency detection
Propulsion machinery
Auxiliary machinery, noise reduction
Noise reduction of auxiliary machinery

Laboratoire d'Essais
Conservatoire National des Arts et Métiers
1 rue Gaston Boissier
Paris XV^e

Tel: LEC 29-89

M. Paul Riety

Electroacoustics

École Supérieure des Sciences de Reims
4, Avenue de la Porte Brançon
Paris XV^e

Dr. Robert Cabarat

Architectural acoustics

Radiodiffusion Télévision Française (RTF)
116, Avenue du Président Kennedy
Paris XVI^e

Tel: BAG 22-22

M. Roger Lamoral

Architectural acoustics

Centre Scientifique et Technique du Bâtiment (CSTB)
4, Avenue du Recteur Poincaré
Paris XVI^e

Tel: AUT 81-80

Robert Josse, Chief of Acoustics Section
Claude Lamure
M. Gilbert

TL of walls, coupling to rooms
" " " " " " , traffic noises
Architectural acoustics (from CNET)

POINTE-A-PALISEAU

Centre National d'Etudes des Télécommunications (CNET)
Batterie de la Pointe
Pointe-a-Palisseau (S-et-O)*

M. Pierre Chavasse, Director of Acoustics
Department (retires when laboratory leaves
Paris in 1966)
Dr. René-G. Lehmann, Consultant

Telephone acoustics, hearing, artificial
mouth and ear *

Telephone acoustics, intelligibility of
language

M. Castagne
M. Rouviere

* Laboratory moving to Lannion in Brittany in 1966.

FRANCE (Cont'd)RANTIGNY

Laboratoire d'Acoustique, Centre Recherches Industrielles
Compagnie de Saint-Gobain à Rantigny
rue Emile Zola
Rantigny (Oise)

D. Fournier
M. Val
Gilda Saporta
P. Fanic
Henri Bailly
P. Chauveau-Dumatray

Room acoustics

" "

STRASBOURG

Centre de Recherches sur les Macromolecules
Université de Strasbourg
6 rue Boussingault

Tel: 35 40 94

Prof. Roger Cerf,* Director
Sauveur Candau
Raoul Zana*
Pierre Lemaréchal

Ultrasonics propagation in gases

*In USA during 1965

TOULOUSE

Laboratoire d'Electroacoustique
2 rue Camichel
31 Toulouse

P. Jossierand

GERMANYAACHEN

Institut für Elektrische Nachrichtentechnik
der Technischen Hochschule Aachen
Alte Maastrichter Strasse 23
51 Aachen

Tel: 422 24 30

Prof.Dr.-Ing. Volker Aschoff, Director
(also Chancellor of the College)
Dr. Ing. Peter Riedel
Dipl. Ing. Jens Elauert

Speech and hearing

Relation of loudness to pitch
Stereophonic systems

Institut für Theoretische Physik
Technische Hochschule
Templergraben 55
51 Aachen

Tel: 4221, ext. 2135

Prof.Dr. Josef Meixner

Molecular relaxation phenomena

Institut für Allgemeine Metallkunde und
Metallphysik
Technische Hochschule Aachen
Templergraben 55
51 Aachen

Tel: 422 25 85

Prof.Dr. Kurt Lücke, Director
Dr. Stüwe, Asst. Director (not acoustics)
Dr. F.A. Hultgren
Dipl. Phys. Dieter Lenz
Dr. G. Roth
Dipl. Phys. G. Sokolowski
Dr. Joseph Schlupf
Dipl. Phys. F.W. Heuser

Damping in metals
Damping in metals
Propagation in copper
Megacycle propagation in lead
Amplitude dependence of internal friction
Low frequency effects on irradiated copper

Dislocation line theory

Institut für Technische Akustik
der Technischen Hochschule Aachen
Templergraben 55
51 Aachen

Tel: 422 24 46

Prof.Dr.-Ing. Wilhelm H. Janovsky, Director
Dipl. Ing. P. Scherer, Asst.
Dipl. Ing. Eckart Jaeger
Dipl. Ing. D. Kutzer

Noise control, machinery noise, electro-
acoustics, hearing, drums
Factory machinery noise

Laboratorium für Ultraschall
Technische Hochschule Aachen
Templergraben 55
51 Aachen

Tel: 422 24 37

Prof.Dr. Reimar Pohlman, Director
Dipl. Ing. E. Schützler
Dipl. Ing. E. Lehfeldt
Dipl. Phys. Ernst Günter Lierke

Image converter
Ultrasonics in wire drawing
Degassing of liquids by ultrasonics,
cavitation inception
Wave analog computer (Schlieren)
Wave analog computer
Ultrasonic metal spray
Ultrasonics documents center,
" applications
Mechanical pulse source

Dipl. Ing. Dieter Dauvidts
Dipl. Ing. P. Höller
Dipl. Ing. Gerhard Griesshammer
Dipl. Phys. Joachim Herbertz

Dipl. Phys. M. Cichos

AACHEN (Cont'd)GERMANY (Cont'd)

Fakultät für Maschinenwesen
der Technischen Hochschule Aachen
Templergraben 55
51 Aachen

Prof.Dr.-Ing. H. Opitz, Director
Dr.-Ing. Jobst Herrmann

Philips Zentrallaboratorium GmbH
Weisshaussstrasse
51 Aachen

Dr. E. Kauer, Director
Dr. A. Rabenau, Asst. Director
Dr. Gottfried Arlt
Georg R. Schodder
Arno Wiericks
Heinz Schweppe
Gerhard Simon
Dr. Reiber
H.O. Westermann
Dr. Hermann
Dr. L. Merten

Gears, including gear noise
" " " "

Chemist
Physical acoustics (semiconductors)
Acoustic amplifier (White)

Tellurium piezoelectric constants

Shear waves in evaporated metal layers

BERLIN

Institut für Technische Akustik
(Also includes Acoustics Division of
Heinrich Hertz Institut für Schwingungsforschung)
Technischen Universität
Jebensstrasse 1 (Moving in 1966 to new building
on Einsteinstrasse)

Tel: (0311) 32 51 81, ext. 932

Prof.Dr. Lothar Cremer, Director
Dipl.Phys. Matthias Hubert, Assistant
Dipl.Ing. Joachim Nutsch
Dipl.Ing. Peter Rother
Dipl.Ing. Jürgen Gruber
Dipl.Ing. Ulrich Kurze
Dipl.Ing. Georg Boerger (H.Hertz Inst.)
Dipl.Ing. Hans Lazarus (H.Hertz Inst.)
Dipl.Ing. A. von Meier (H.Hertz Inst.)
Dipl.Ing. Ralf Kürer (H.Hertz Inst.)
Dipl.Ing. Georg Plenge (H.Hertz Inst.)
Hartmut Ising
Dr. Ernest Lübecke (Guest Prof.)

Dr. Hanno Heller
Dipl.Ing. Gerhard Mittag
Dipl.Ing. Heinz Gummlich
Prof. W. Schaafs (Guest Prof.)
Dr. (Mrs.) Ruth Nutsch
Dr. M.V. Kaulgud

Structureborne sound, architectural acoustics
Noise control, mufflers, aerosonics
Architectural acoustics
Room acoustics, architectural acoustics
Psychoacoustics - interaural effects
Propagation in ducts and mufflers
Psychoacoustics, directional effects
Musical acoustics of string instruments
Sound insulation of walls
Room acoustics

Musical acoustics
Machinery noise, noise control, subjective
reactions
Aerodynamic noise
Subjective loudness of machinery
Acoustic resistance of rough walls
Ultrasonic propagation in liquids
" " " "

Lehrgebiet für Kommunikations Technische Wissenschaft
Technischen Universität
Hardenberg Strasse 34
1 Berlin 12

Tel: 32 51 81

Prof. Fritz Winckel
Dipl.Ing. Manfred Krause

Technical aspects of music, speech and
communication, phonetics, studio acoustics
Speech synthesis and analysis

BERLIN (Cont'd)

Institut für Verbrennungskraftmaschinen
Technische Universität Berlin
Hardenbergstrasse 34
1 Berlin 12

Prof. Walter Pflaum, Director

Dr. W. Hempel

Institut für Strömungstechnik (DVL)
Technische Universität Berlin
Hardenbergstrasse 34
(Physically located at Gartenufer 8 - on the canal)
1 Berlin 12

Prof. Rudolf Wille, Director
Dr. C.W. Schreck, Univ. Asst.
Dr. H. Schade
Dr. A. Michalke
Dr. Adalbert Timme, DVL Asst.
Dipl. Ing. Eberhard Berger
Dipl. Ing. D. Bechert
Dipl. Ing. P. Freymuth
Dipl. Ing. D. Schmidt

Otologisches Institut
Freie Universität Berlin
Spandauer Damm Strasse
Berlin 19

Dr. Rudi Fischer

Laboratorium für Elektroakustik GmbH
Segitzdamm 2
Berlin 61

Ernst-Georg Neumann

Material Prüfungsanstalt
Unter den Eichen 87
1 Berlin 45

Dr. Paul Schneider
Werner Rückward

Siemens-Schuckert-Werke AG
Nonnendammallee 101
1 Berlin 19

Gerhard Hubner
Hans Hoffman

BOEBLINGEN

Hewlett-Packard GmbH
Postbox 250
703 Boeblingen

H. Blasser

GERMANY (Cont'd)

Tel: 32 51 81, ext. 353

All aspects of combustion engines, including
noise and vibration
Noise and vibration of diesels

Tel: 32 51 81, ext. 693

Vortex shedding, transition, shear flows
Turbomachinery
Stability of shear flows theory
Stability theory of shear layers
Karman vortex, shear flows
Vortex shedding at low Reynolds numbers
Organ pipes and edge tones
Interaction of sound and turbulence
Sound and turbulence re aircraft

Tel: 32 51 81

Psychoacoustics, hearing

Electroacoustics

Tel: 76 52 31

Building acoustics

Machinery and aerodynamic noise, radiation

" " " " " "

Loudness analyzer

GERMANY (Cont'd)BONN

German Ministry of Defense, Section TV6

Dr. Schüler
Dipl.Phys. R.R. HauserUnderwater sound
" "

Universität Bonn

Prof.Dr. H. Wendt

Relaxation effects in liquids

Institut für Phonetik und Kommunikationsforschung
Universität Bonn
Koblenzer-Strasse 98a

Tel: 3 19 41

Prof.Dr. Leo Weisgerber
Dr. Hans G. Tillmann
G. Heike
H. Schnelle
Gerald Ungeheuer
Robert Rupprath
L. Friedrich
Winifried Mainka
Bente Halmer

Speech analysis, recognition and synthesis

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BRAUNSCHWEIGDeutsche Forschungsanstalt für Luft und
Raumfahrt E.V., DFL
Flughafen
33 Braunschweig

Tel: 71031

Dr.Ing. Otto Lutz, Director

Jet noise, cross correlation in signal detec-
tionAbteilung V
Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
33 Braunschweig

Tel: 5921/2, ext. 2280

Dr. Horst Gunther Diestel, Director
of Section V (Acoustics Division)Dr. Gerhard W. Becker
Dr. Peter DämmigDr. Rudolf Martin
Dr. Kallenbach
Dr. Jan Koppelman
Dr. Lottermoser
Dr. H. Mass
Dr. H.J. Rademacher
Dr. G. Venzke
Dr. Jürgen Meyer
H. BrockschCalibration of electroacoustic devices and
artificial earsHigh polymers at finite amplitudes
Building acoustics, impact tests, acoustic
instrumentsNoise measurements of autos, planes, ships, etc.
Sound analysis and recording

Ultrasonics in solids

Musical acoustics

Calibration of electroacoustic devices

High polymers non-linear effects

Architectural acoustics

Musical acoustics

Properties of artificial ears and electro-
acoustic calibration

Ultrasonics in solids

Ultrasonic propagation in metals

Ultrasonic propagation in metals

" " " "

Ultrasonic cleaners

Speech visualizer

Rieskman
Dr. Rainer Frielinghaus
Dr. G. Ludwig
Klaus Brinkmann
M.C. Mühle
Dr. C. Uhlenhut
Prof. Dr. Phil. Martin Grützmacher
(retired as Director, now on contract)

BRAUNSCHWEIG (Cont'd)GERMANY (Cont'd)

Institut für Materialsprüfung und Baustoffkunde
Technische Hochschule
Beethoven Strasse, 52
33 Braunschweig

Prof. Dr. Kordina, Director
Dipl. Phys. Herbert Schultze
Dipl. Ing. Joachim Steinert

Building acoustics
Vibrations and acoustics

BREMEN

Atlas Werke AG
Sebaldsbrücker-Heerstrasse 235
Bremen 2

F. Hovey
H. Mass
D. Reichow
Herbert Gritsch
Hans Schlemm
Rudolf Thiele

Sonar, transducers

COLOGNE

Drs. J. u. H. Krautkrämer
Gesellschaft für Elektrophysik
Luxemburger Strasse 449
Köln-Klettenberg

Tel: 41 49 41

Dr. Josef Krautkrämer
Dr. H. Krautkrämer
Dr. L. Niklas, Tech. Director

Flaw detection equipment

Plate waves

DARMSTADT

Fernmeldetechnisches Zentralamt der
Deutsches Bundespost
Rheinstrasse 110

Tel: 8041

Dr. F. A. Fischer, Head of Communications
Research
W. Endres

Electroacoustics
Speech communication

DORTMUND

Max Planck Institut für Arbeitsphysiologie
Rheinlanddamm 201
46 Dortmund

Tel: 2 52 55

Prof. Dr. Gunther Lehmann
D. Dieckmann
Dr. Wolfgang Hawel
H. Damsky
G. Jansen
Wolfram Knöpke

Noise abatement
Effects of ultrasound on man
Annoyance of noise
Effects of sound on human eyes
" " " " " "
" " " " " "

Staatliches Materialprüfungsamt
Exzellenzstrasse 45
Dortmund Aplerbeck

Dr. A. Eisenberg

Building acoustics, standards

GERMANY (Cont'd)DÜSSELDORF

Forschungslaboratorium für Medicine Akustik
Oertelstrasse 2
Düsseldorf

Edmund Buchta
Christine Buchta

Universität Düsseldorf
Strumpellstrasse 4
(4) Düsseldorf

Prof. Dr. Ing. F.J. Meister

Effects of noise exposure

ERLANGEN (near Nürnberg)

Institut für Physikalische Chemie
Universität der Erlangen
Schuhstrasse 19

Tel: 87 71 (652)

Prof. Dr. Erich Lange, Director
Dr. Heinz Hoffman

Relaxation phenomena in electrolytes

Siemens-Reiniger Werke AG
Gebbertstrasse 125

J. Patzold
Clemens Stärke

Ultrasonic instruments for medical applications

ESSEN

Institut für Schall und Wärmeschutz
Krekelerweg 48
Essen - Steele

Prof. Dr. Werne Zeller
Levente Zorkoczy

Building acoustics, noise control
" " " "

FRANKFURT/MAIN

Battelle-Institut e.V.
Wiesbadener Strasse
6 Frankfurt/Main - W 13

Tel: (0611) 77 06 8 ext. 340

Dr. H. Haeske
Dipl. Phys. G. Spengler
Dr. M. Morsbach
Dipl. Phys. D. Herrmann
Dipl. Ing. R. Schmitt
Dipl. Ing. S. Mahold
Dipl. Geophys. H. Köppel
Dr. F. Rischbieter
Dr. R.-A. Hintz

(Chief of acoustics division)
Waterborne sound, ultrasonics
Aerodynamics, hydrodynamics
Theoretical physics
Waterborne sound measurements
Vibration, structureborne sound, noise control
Geophysics, soil dynamics
Acoustics, rock mechanics
Geology, documentation

Firma Schüller
Elektrochemische Fabrik
Morfelder Landstrasse 115-9
6 Frankfurt/Main

H.J. Gollmick

Ultrasonic cleaning and processing equipments

FRANKFURT/MAIN (Cont'd)

Farbwerke Hoechst AG
Hoechststrasse
6230 Frankfurt/M-Hoechst

GERMANY (Cont'd)

Tel: 0611-31 055

Dr. Hermann Oberst, Head of High Polymer
Physics Laboratory
Dr. F. Linhardt
Dr. Alfred Schommer
Dr. Braunisch
Dr. (Miss) H. Gramberg
G. Quietzsch

Vibration damping materials
Measurement of high polymers
Damping for noise control

High polymer physics
Damping, sound reduction

GODESBERG (near Bonn)

Institut für Flugmedizin der DVL

Prof. S. Ruff

Effect of vibrations on human organisms

GÖTTINGEN

III Physikalisches Institut der Universität Göttingen
Bürgerstrasse 42/44
34 Göttingen

Tel: (0551) 5-58-44

Prof. Dr. Erwin Meyer, Director
Dr. Heinrich Kuttruff, Asst.

Dr. Wolfgang Burgdorf
Dr. A. Zosel
Dr. K.G. Plass

Dr. Wolfgang Eisenmenger
Dr. Klaus Brendel
Dr. Martin Hund
Dr. W. Pottel
Dr. Peter Mertens
Dr. Wolfram Schilz
Dr. Heinz Dieter Gruschka
Dr. F. Mechel
Dipl. Phys. D. Guicking
Dipl. Phys. Haebel
Dipl. Phys. K. Lassmann
Dipl. Phys. Kinder
Dipl. Phys. D. Damaske
Dipl. Phys. D. Ronneberger
Dipl. Phys. Güsewell
Dipl. Phys. Richard Reipka
Dipl. Phys. Werner Lauterborn
Dipl. Phys. J. Wolfrum
Dipl. Phys. Karl Heinz Zimmermann
Ernst-Georg Neumann
Ortwin Lossen

Acoustics and wave physics (retiring 6/68)
Cavitation, concert-hall acoustics,
shock waves
Psychoacoustics and electroacoustics
Influence of pressure on high polymers
Physical acoustics of liquids (cavitation and
sound absorption at high frequencies)
Ultrasonics, shock waves in liquids
Absorbers for underwater sound
Underwater sound diffraction and scattering
Microwaves studies, group leader
Sound and flowing fluids interactions
Interaction of sound waves and moving fluids
Sound-turbulence interaction
Interaction of sound waves and moving fluids
Dynamic elastic moduli of polymers
Relaxation phenomena in gases
Hypersound
Hypersound
Psychoacoustics studies in anechoic room
Propagation in pipes with air flow
Laser acoustics
Shock waves
Diffusers in room acoustics
Plasma shock waves

GÖTTINGEN (Cont'd)GERMANY (Cont'd)

Max Planck Institut für Physikalische Chemie
Bunsen Strasse 10
34 Göttingen

Dr. Manfred Eigen
Dr. H. Diebler
Dr. L. de Maeyer
Dr. G. Maass
Dr. Frieder Eggers
Dr. G. Ilgenfritz
Dr. H. Strehlow

Kinetics of fast chemical reactions
Temperature jump method for liquids
Experimental studies of fast chemical reactions
Ultrasonic absorption in liquids
Ultrasonic relaxation in liquids
Electric-field jump studies of relaxation
Pressure jump and NMR studies

Max Planck Institut für Strömungsforschung
Böttlingerstrasse 6/8
34 Göttingen

Prof. Walter Tollmien, Director
Dr. Ernst-August Müller
Dr. Klaus R. Matschat
Dr. Dieter W. Schmidt
Dr. Hans Reichardt
Dr. (Miss) Herbeck
Dr. Beiter
Dr. W. Sattler
Dr. Willi Krämer
Dr. A. Dinkelacker

Fluid mechanics
Interaction of turbulence and sound - theory
" " " " " " "
" " " " " " "-experimental
Cavitation and supercavitation
Turbulence and wall pressure fluctuation
Hydraulic cavitation
Cavitation tunnel studies
Drag reduction
Aerodynamic noise, aeroseonics

Aerodynamisches Versuchsanstalt
Böttlingerstrasse 10
34 Göttingen

Prof. Dr. Ludwig

Aeroseonics

HAMBURG

Institut für Rundfunktechnik GmbH
Mittelweg 113
2 Hamburg 13

Tel: 0411 44 15 01

Dr. Walter Kuhl
Dipl. Phys. Uwe Kath
Heinrich Kösters

Broadcast and studio acoustics
" " " " "
" " " " "

Institut für Fangtechnik
Bundesforschungsanstalt für Fischerei
Palmsille 9
Hamburg-Altona 1

Tel: 38 16 01

Prof. Andres von Brandt, Director
Dr. Gustav Freytag
Dr. H. Mohn

Fish catching
Bio-acoustic detection of fish and fish sounds
Echo-sounder studies

Hamburgische Schiffsbau-Versuchsanstalt
Bransfelderstrasse 164
Hamburg 33

Tel: 0411-61 75 51/53

Prof. Hermann Lerbs, Director

Naval architecture, propellers, cavitation

GERMANY (Cont'd)HANNOVER

Dr. A. Stankiewicz GmbH
31 Celle/Hannover

Dr. A. Stankiewicz
Christian Betzhold
Karl Kurz

Damping materials
Ship acoustics, partitions
" " "

HEIDELBERG

Institut für Angewandte Physik
University of Heidelberg
Albert-Uberle Strasse 5

Tel: 43-8-36

Prof. Dr. Konrad Tamm, Director of Acoustics
Dr. O. Weis, Asst. to Director
Dr. H. Hinsch, Asst. to Director
Dr. Klaus Hubner
Dr. Kurt Breitschwerdt
Maier
Schulz

Physical acoustics
Very high frequency sound sources
Sound propagation in gases, solids and plasmas
Plasma physics, sound in plasmas
Chemical physics - propagation in electrolytes
70-GHz source
Acoustically excited superconducting layers

HEILBRONN

Staatliche Ingenieurschule
71 Heilbronn

Dr. Ulrich Arns

HEPPENHEIM

Dr. Lehfeldt & Co. GmbH
Siegfriedstrasse 150
6148 Heppenheim/Bergstrasse

Dr. Lehfeldt
Prof. Dr. R. Pohlman (Director,
Laboratorium für Ultraschall, Technische
Hochschule, Aachen) Consultant 1-2 days per week.

Ultrasonic equipments

HOMBURG

Physiologisches Institut
Universität des Saarlandes
665 Homburg, Saar

Prof. Dr. R. Stämpfli

Physiology of hearing

KARLSRUHE

Institut für Physikalische Chemie und Elektrochemie
Technische Hochschule
Englerstrasse 11

Prof. Dr. Paul Günther, Director

Chemical effects of ultrasound

KARLSRUHE (Cont'd)GERMANY (Cont'd)

Institut für Nachrichten-über-Tragung
und Nachrichten-verarbeitung
Technische Hochschule
Kaiserstrasse 12
75 Karlsruhe

Prof.Dr.-Ing. Gunther Kurtze

Electroacoustics, absorbers for underwater
sound

Dipl.Ing. Karl Gunter Schwartz
Theodor Keller

" " " " "

Siemens und Halske AG
Rheinbrückenstrasse 50

Wilfried Struve

Electroacoustics

KIEL

Electroacoustic GmbH
Westring 425/29

Tel: 40821

Dr. Erhard Ahrend, Technical Director

Sonar, transducers

Laboratorium von Dr. Fahrentholz Echoletfabrik
Grasweg 2-6
23 Kiel

Dr. Siegfried Fahrentholz
Siegfried Fahrentholz, Jr.

Sonar, underwater sound
" " "

Erprobungsstelle 71 der Bundeswehr
Berliner Strasse 115
Eckernförde (near Kiel)

Dr. A. Baurmeister

Underwater sound

Oceanographische Forschungsanstalt der Bundeswehr
(Federal Defense Oceanographic Research Laboratory)
Lornsenstrasse 7
23 Kiel

Tel: 30771

Dir. Dr. Lechner

Dr. Peter Wille (formerly under Dr. Erwin Meyer) on staff

LUDWIGSHAFEN

Grunzweig und Hartmann AG
67 Ludwigshafen am Rhein

Tel: 6092-500

Prof.Dr. Günther Kurtze, Director of Research
Dr. Wilhelm Bausch, Head of Acoustics
Dr. Helmut Schmidt, Acoustics Laboratory
Jorgen von der Linde
Dipl.-Ing. Hans-Ulrich Wilhelm
Wolff
Werner Kuglin
J. Waladorff
Christian Körner

Architectural acoustics
Architectural acoustics and noise control
Architectural acoustics
Structure-borne sound propagation
" " " "
Architectural acoustics

GERMANY (Cont'd)MUNICH

Institut für Technische Physik
Technische Hochschule
Arcistrasse 21

Tel: 0811-5592 (321)

Prof.Dr. K.E. Zwicker, Director
Dr. Roland Bücklein
Dr. Ekkehart Krauth (will leave this fall)
Dipl.Phys. Burkhard Stuber
Dipl.Ing. Dieter Brebeck
Dipl.Ing. Stephan Zurnatzis
Dipl.Ing. Karl Glück

Modeling in architectural acoustics
" " " "
Modeling aerodynamic noise
Modeling room acoustics
TL of model walls

Deutscher Bundesbahn Versuchsanstalt
Völckerstrasse 5
München-Freimann

Tel: 0811-57 90 832, ext. 456

Dr. Camill Stüber
Günther Hauck

Railroad noise and its control, diesels
Ultrasonic flaw detection

Institut für Steuer und Regeltechnik DVL
8031 Oberpfaffenhofen
Post Wessling/obb

Tel: 08153-431/2

Prof. George Knausenberger, Director
Dr. Friedrich Karl Schröder, Asst. Director
and Head of Acoustics
S. Waldschuetz
H.I. Weingarten

Not acoustics
Electroacoustics
Aerodynamic noise, aerosonics

Institut für Physik der Atmosphäre DVL
Munich-Riem Flughafen

Tel: 47 01 56

Prof. H.-G. Müller

Acoustics measurement technique in atmosphere,
including acoustic anemometers

Bolkow Entwicklungen K.G.
München-Ottobrunn

Tel: 0811-47-86 61, ext. 650

Dr. Horst Merbt
Kurt Scifert

Underwater sound, aerosonics

Siemens und Halske AG
Zentral Laboratorium
8 München 25

Richard Karmann
Martin Sauer
Dr. Herbert Müller
Werner Langsdorff
Otto Hörner

Electroacoustics
"

MUNICH (Cont'd)

Müller-BEW GmbH
Herzogspitalstrasse 10
8 München 2

Dr. Helmut A. Müller
Dr. Manfred A. Heckl
Dr. Ludwig J. Schreiber
Achim Böhm

Rohde und Schwarz HG
Muhldorfstrasse 15
8 München 8

Prof. Dr. Werner Bürck
Dr. W. Friess

Industrie Anlagen Betriebsgesellschaft
München-Autobrun

Dr. Koppe

Fa Messerschmitt AG
Entwicklungsabteilung
8 München, Museumsinsel

Oskar Bschorr
Detlev Kubanke

SAARBRÜCKEN

Institut für Angewandte Physik und Elektrotechnik
Universität des Saarlandes

Tel: 2 13 51 (230)

Dr. Eberhard Hausler
Hugo-Josef Seemann

Optical investigation of elastic waves

SALZGITTER-WATENSTEDT

Firma Linke-Hofmann-Busch
3321 Salzgitter-Watenstedt

Gisbert Bobbert
E.-A. Winkelholz

Sound in ducts with air flow
" " " " " "

STUTTGART

1 Physikalisches Institut der Technischen Hochschule
Wiederholdstrasse 13

Tel: 29 97 81

Prof. Dr. Hans Otto Kneser, Director
Dr. Hans-Jörg Bauer
Dr. W. Pechhold
Dipl. Phys. H.G. Danielmeyer
Dipl. Phys. E. Liska
Dipl. Phys. Heinrich Roesler
Dipl. Phys. K.F. Sehm

Physical acoustics
Relaxation phenomena in gases, liquids
Rel. phen. in high polymers
" " " solids
" " " mixtures of gases
" " " gases
" " " "

Institut für Nachrichtentechnik der
Technischen Hochschule Stuttgart
Breitscheidstrasse 3

Tel: 29 97 31

Prof. Dr. R. Feldtkeller, Director
Hermann Scholl

Audio and Psycho-acoustics
Pulsed noises and tones

GERMANY (Cont'd)

Tel: 0811-29 32 26

Ship radiated noise
Flexural vibrations and radiation
Measurements

Tel: 40 19 81

Electroacoustics, noise control

Aircraft noise, vibration fatigue testing

Jet and turbulence noises
" " " "

GERMANY (Cont'd)STUTTGART (Cont'd)

Institut für Technische Physik
Königsstrasse 70/74
7 Stuttgart-Degerloch

Prof. Dr. Karl Güsele, Director of Institute

Structure-borne sound and architectural
acoustics

Dr. Dietrich Neumeier, Director of Acoustics

TUBINGEN

Universität Tübingen
Zoophysiolgisches Institut
Tübingen

Prof. Dr. F. P. Mühres, Director
Dr. Gerhard Neuweiler
Dr. Hans-Ulrich Schnitzler

Bat sonar

" "
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ULM

Telefunken Forschungsinstitut
Söflingerstrasse 100
79 Ulm (Donau)

Manfred Börner
Hans Schüssler
Heinz Kusch
H. Mangold

Electromechanical filters
" "

Staatliche Ingenieurschule
Ulm (Donau)

Heinrich Hauser

Plate vibrational patterns

28

D-13

GREECE

ATHENS

Ethnikon Metsovion Polytechnion
Odos 28 Octovriou 42

Prof.Dr. Basile Papathanassopoulos

Building acoustics

HUNGARYBUDAPEST

Hungarian Academy of Sciences
Acoustical Research Group
Pushkin U.5-7
Budapest VIII

Tel: 141-217

Prof. T. Tarnóczy

Architectural acoustics, automatic speech
recognition
Ultrasonic fields

Dr. A. Illényi

Virgy Research Laboratory

Dr. Imre Egri

Hungarian Radio

László Kiss
Jenő Radnai
Sándor Steinbach

Scientific Railway Institute

P. Greguss
Péter Domén
Béla Széchy

Ultrasound treated retinal degenerations

ÁÉTV Building Designing Institute

András Kotschy

Industrial Institute for Communication Research

Maria Steinbach

EAG Research Laboratory

Rezső Karcsay

ITALYLA SPEZIA

SACLANT ASW Research Center
Viale San Bartolomeo, 92

Tel: 27-595

Dr. M.W. Van Batenburg (Netherlands), Director	
Dr. Royal Weller (US), Asst. Director	
Dr. A. Dahme (Germany)	Oceanography
Mr. G. Carley (US SecNav)	Operations research
Mr. A. Bruce (UK)	Target classification
Dr. J.E. Lokken (Canada)	Special studies
Mr. R. Laval (France)	Sound propagation
Mr. R. Hall (UK) (Replaces Mr. A. Bruce, Sept. 1967)	

Mariperman
Viale San Bartolomeo 92

LCDR A.M. Barile	Submarine and propeller noise
Col. F. Bagnoli	
Col. G. Corio	
Sten A. Piuma	

U.S.E.A.
Via P. Mantegazza, 24
San Terenzo en Mare

Prof. G. Pazienza, Director	ASW, sonar
Prof.-Ing. M. Federici, Consultant	ASW, noise
Dr. Cocici	System engineering, signal processing
Dr. M. Benedetti	Sonar calibration

MILAN

Laboratorio di Acustica Applicata
Istituto di Fisica Tecniche Macchine
Politecnico
Piazza Leonardo da Vinci

Tel: 292-105

Prof. Gino Bozza, Director of Institute; Chancellor of College
Dr. Nello Morresi, Director of Acoustics Laboratory Noise and vibration and their control

Direttore Laboratori Gumma
Pirelli S.p.A.
Viale Sarca 202

Tel: 6222

Dr. Arturo Chiesa	Acoustics measurements of car, spectrum analysis
Ing. Rinonapoli	Spectrum analysis, car dynamics
Ing. L. Tambini	Tire vibrations
Dr. Ing. Valentino Zerbini	Dynamic moduli of rubbers
Ing. Giorgio Tangorra	" " " "
Ing. Angelo Bassi	" " " textiles
A. Angioletti	" " " rubber

PADUA

University of Padua
Dept. of Oto-rhino-laryngology

Prof. Dr. Michele Arslan

Ultrasonic treatment

PISA

Istituto di Chimica Industriale
University of Pisa
Via Diotisalvi

Tel: 23-225

Prof. M. Baccaredda

Dynamic elastic properties of polymers

ROME

Istituto Nazionale di Ultracustica "O.M. Corbino"
Piazzale delle Scienze 7

Tel: 490-151

Prof. Amedeo Giacomini, Director
Prof. Italo Barducci

Physical acoustics
Electroacoustics, architectural acoustics,
noise

Prof. Alfonso Barone

Propagation in gases and liquids, experi-
mental techniques

Prof. Pietro G. Bordonì

Propagation of ultrasound in solids at low
temperatures

Prof. Mario Nuovo

Propagation in solids at low temperatures

Prof. Daniele Sette (Consultant only)

Ultrasound in liquids, cavitation

Prof. Livio Verdini

Transducer materials, solids at low
temperatures

Dr. Fausta Fanti

Propagation in solids, experimental techniques

Dr. Paolo Emilio Giua

Propagation in solids, sonic modulation of
lasers

Dr. Fabio Massimo Mazzolai

Internal friction in solids-experiments

Dr. Luciano Palmieri

Propagation in solids

Gaetano Cannelli

" " "

Istituto di Fisica della Facoltà d'Ingegneria
Università di Roma
Città Universitaria

Tel: 4689, ext. 606

Prof. Daniele Sette, Director

Structure of liquids and solids

Dr. M. Bertolotti, Assistant

Lasers and semiconductors

Dr. Francesco Wanderlingh

Nuclei in water, cavitation inception

Dr. Giovanni D'Arrigo

Propagation in liquid mixtures

Dr. L. Mistura

Propagation in liquified Argon

Dr. Cettina Diana Messina

Cavitation inception and nuclei

Laboratorio di Fisica Tecnica della Facoltà
di Ingegneria
Università di Roma
Via Eudossiana

Prof. Gino Parolini

Room and building acoustics

Prof. Italo Barducci (Consultant)

Istituto Superiore delle Post e Telecomunicazioni
Viale Trastevere 189

Dr. Foster Bianchi (Director of
Acoustics Laboratory)

Communications acoustics

Dr. Giovanni Ibba

" "

L. Giacomelli

Electrical networks

Prof. Italo Barducci (Consultant)

Centro Esperienze Idrodinamiche della Marina Militare
Ministero della Difesa-Marine

T. Colonnello G.N. Pier Giacomo Maioli,
Director

Naval architecture, cavitation, noise

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 Universita di Trieste
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 Director of Acoustics Group
 Mrs. Cesarina Bordone-Sacerdote
 Asst. and Interpreter
 Dr. Roberto Piazza
 Dr. Franco Ferrero
 Ing. Giuicario Cervini
 Dr. Guiseppe Righini

Electroacoustics, human voice

Electroacoustics, acoustic measurements
 Microphone calibration, attenuation of sound
 Phonetics and human voice
 " " " "
 " " " "

THE NETHERLANDSAMSTERDAM

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Dr. Bosman
C.E. Bos
Paul Kuypers
L. Joosten
Physica Department
Faculteit der Wiskunde en Natuurwetenschappen
Universiteit van Amsterdam
Plantage Muidergracht

Physiology of hearing, deafness
" " " "
Psychoacoustics, masking
Physiology of hearing, deafness

Dr. H. den Hartog
Dr. F.A. Muller

Architectural and musical acoustics
" " " "

DELFT

Laboratorium voor Technische Natuurkunde
Technische Hogeschool
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D. van Wulfften Palthe
Jacob W.M. Baars
Pieter A. de Lange
Alex de Bruijn
Fr. A. Bilsen

Architectural acoustics
" "
" "
" "
" , absorbing materials

Instituut voor Gezondheidstechniek TNO
Sound and Light Division

Dr. Jan van den Eijk, Head
J. van Ierland
Dr. Max Conrad Gemperts

Building acoustics, TL
" " "
Transition through slits and holes,
interferometers

Marinus L. Kasteleijn

Technisch Fysische Dienst TNO en TH
Stieltjesweg 1

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Ir. H. de Zeeus, Co-Director
Ir. G.J. van Os, Acoustics Section

Building acoustics, concert-hall acoustics,
noise control, machinery noise, aircraft
noise
Vibrations, ship machinery noise and vibration
Vibrations, vibration damping re ships
Vibrations
Building acoustics
Ship vibrations and acoustics

Ir. Jan H. Janssen
Ir. Floris H. Van Tol
Ir. C.B. Van der Voorde
Ir. B. van Steenbrugge
Ir. Jan Buiten
Ir. Tjeerd Ten Wolde
Johannes J. Matser

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Dr. Friedrich Schwarzl, Head of Physics Section	Dynamic mechanical properties of polymers
H.W. Bræ	" " " "
C.W. van der Wal	" " " "
L.C.E. Struik	" " " "
Cornelis J. Nederveen	

Laboratorium voor Aero-en Hydrodynamica
der Technische Hogeschool
Rotterdamseweg 145

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Ir. R.E. de Haan

Aerosonics, boundary layer turbulence

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Instituut voor Perceptie Onderzoek
de Technische Hogeschool
Insulindelaan 2

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Antonie Cohen
Ben Lopes Cardozo
Roel J. Ritsma
Dr. van den Brink
Johan t'Hart
Gerrit Vossers
Paul Smulders
Lei Willens

Perception of sound and speech
Speech synthesis, phonetics
Hearing, pitch perception
" " "
Psycho-acoustics
Speech analysis and synthesis

Philips Research Laboratories

Prof. J.L. van Santen, Foreign Visitors Liaison
Jan de Boer, Director
Dr. Ir. Kees Teer, Head electroacoustics
Dr. C. Wansdronk
C.M. van der Burgt
Ir. Nicolass V. Franssen

A.L. Stuijts
E. de Niet
Ir. D.L.A. Tjaden
E.E. Havinga
R. David
A.S. van der Goot
D.J. van Ooijen
H.P.C. Daniels
Luitje Alons
B. de Boer
Cornelis M. Boon
Daniel M. Duinker
Derk Kløis
Gideon M. Lodders
Henk Mulder
F.L.J. Sangster
Stefan de Koning
W. Tak
J.A. Van Vliet

Electroacoustics (formerly)
Magnetic recording, transducers
Mechanism of hearing, masking
Materials for transducers and delay lines
Mechanism of human voice and hearing,
wind instruments
Materials for transducers, ferrites
Magnetic recording, transducers
" " "
Transducer ceramics
Magnetoacoustics
Internal friction of metals
" " " " , low temperatures
Ultrasonic welding metals and plastics

Electromechanical transducers

THE NETHERLANDS (Cont'd)THE HAGUE

Organization for Health Research (TNO)
P.O. Box 297
Juliana Van Stolberglaan 148
The Hague

Pres. Dr. J.W. Tesch
Dr. H.A. van Leeuwen
Mrs. W.P. Vermeer

Industrial deafness
" "

Fysisch Laboratorium RVO-TNO
Vlakte van Waalsdorp

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Ir. H.A.J. Rijnja
Ir. K. Posthumus

Sonar, underwater sound
Noise

HILVERSUM

Laboratorium Nederlandsche Radio Unie
Amperestraat 10

Dr. Ir. J.J. Geluk, Director

Studio acoustics, stereophony, broadcast
acoustics

Ir. F.J. van Leeuwen

Broadcast acoustics, reverberation plates,
vibrations

LEIDEN

Kamerlingh Onnes Laboratorium
University of Leiden

Prof. Dr. N.J. Poulis

Magnetoacoustics

ROTTERDAM

Dijkzigt Hospital

Dr. M. de Vlieger

Echo-encephalography

SOESTERBERG

Instituut voor Zintuigfysiologie RVO-TNO
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Tammo Houtgast

Psychoacoustics, musical acoustics

UTRECHT

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Kamer 1304 Hbg III
Nederlandsche Spoorwegen

M. van der Hoek

Diesel noise

THE NETHERLANDS (Cont'd)WAGENINGEN

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Dr.Ir. J.D. van Manen

Ir. R. Wereldsma

L. van Wijngaarden

Propeller oscillation forces

Propeller vibratory forces

Collapse of cavitation bubbles

NORWAYBERGEN

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A. Kildal

Acoustic streaming

" "

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Asbjørn Krokstad
Wilhelm Løchstøfer
Tore Olsen
Knut Fintoft
Oddvar S. Høibostad
Ole H. Herbjørnsen
Kjell Gjaevenes
Tor Erik Vigran

Acoustics, ultrasonics, physical acoustics
Jet noise

Low temperature physical acoustics

HORTEN

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Mr. I. Engelsen, Supt.
Ole Fr. Harbek, Senior Scientist
Per Heimdal
Dr. F. Lied
Mr. A. Aubell
Mr. E. Kjellsby
Odd Olsen

Underwater sound

" "

Acoustic-oceanographic studies
Transducer calibration
Acoustics research
" "

Simonsen and Mustad Co.
Division of Simonsen Radio A.S.
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Sonar and echo sounders

TRONDHEIM

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Prof. Dr. H. Wergeland
Asbjørn Krokstad

Architectural acoustics
Theoretical acoustics
Loudspeakers, room acoustics

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Vincente Banuls-Terol
J.S. Santiago
A. Perez-Lopez
Miguel Llorente

Building acoustics

" "

" "

" "

Musical acoustics

SWEDENGOTHENBURG

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Tor Kihlman
Sven-Olo Benjegård

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Kjell Andersson
Hans Elvhammar

Building acoustics

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Traffic noise

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Björn
Dr. Gunnar Liden

Physiology of hearing
Audiology, stereophonic hearing
Phonetics, speech
Audiology

Svensk Akustiplanering AB
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B. Lundqvist

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Lidingö 3

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Department of Internal Medicine
University Hospital
Lund

Dr. Inge Edler

Ultrasound cardiology

STOCKHOLM

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Frans Fransson
Wiktor Jasse
Janos Martony
A. Risberg
Marianne Richter
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O. Franzen
K. Galyas
Johan Liljencrants
Jan Lindqvist
P. Tjernlund

Speech, language, noise control
Speech analysis and synthesis
Phonetics
Musical acoustics
Phonetics
"
Hearing aids, speech communication

Communication with hard of hearing
" " " " "
Analysis and synthesis of speech
Physiology of larynx
Extraction of voice pitch

Akustikbyrån AB
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Chief Engineer

Anders O. Andersson
Stig Söderqvist
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Naval acoustics, ship noise, structural
vibrations, pump noise
Vibration isolation and isolators
Pump pulsations and noise

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P.-G. Lundqvist
Dr. Günter Rösler*
Dr. Bertil Johansson*
Hakan Sjögren*

Physiology of ear
Otorhinolaryngology
Naval medicine, hearing
Auditory physiology
Physiology of ear
Cochlear functions in animals
Physiology
Physiological acoustics, audiometry
Applied audiology, foetus hearing
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*Work at Speech Trans. Lab., KTH

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C. Wachtmeister

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Architectural acoustics

" "

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Pitch perception

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Institute for Acoustics
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Ing. Sigfrid Wennerberg
Lars Göltherström
Harald Haegermark
Ake Hallbäck
Claes Runborg

Acoustics
Hydroacoustics

"
"

Kungl. Fortifikationsförvaltningen
Tegelbacken
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Dr. Gunnar Lindh

Underwater explosions

UPPSALA

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Ultrasonics Group
Universitet i Uppsala

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Dr. Sven Johnson

Ultrasonic delay lines
Medical

SWITZERLANDBERNE

Radio Suisse S.A.
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Prof. Willi Furrer

Electroacoustics, broadcast acoustics

ZURICH

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Building acoustics and noise control
Noise control
Building acoustics

École Polytechnique Fédérale
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Aircraft noise

Department of Hygiene and Physiology
Swiss Federal Institute of Technology

Dr. Etienne Grandjean

Hearing and deafness

UNITED KINGDOM - ENGLANDBIRMINGHAM

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Dr. V.G. Welsby

Dr. J.W.R. Griffiths
Dr. H.O. Berkday
Dr. Brian Kenneth Gazey
Dr. Dennis C. Cooper
James R. Dunn
Prof. J.T. Allanson
D.P. Howson
Prof. H.A. Prime
E.S.Y. Lin

Underwater sound, sonar, arrays
Sonar, underwater sound, non-linear acoustics,
arrays
Sonar signal processing, noise measurement
Non-linear end-fire arrays
Sonar, arrays
Acoustic-optical effects
Scanning sonars
Psychological acoustics
" "
Ultrasonic flaw detection
Pneumatic source

Department of Mechanical Engineering

Dr. B. Mills
J.C. Maltbaek
G.H. Trengrouse
F.B. Blader

Mechanical vibrations
Vibration characteristics of structures
Noises generated by pressure waves
Non-linear vibration isolators

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Physics Department

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Mechanical properties of polymers

Electrical Engineering Department

A.R. Bailey
E.C. Bell
L.N. Hulley

Acoustics measurements
" "
" "

Civil Engineering Department

F.S. Hudson

Building acoustics

BRIGHTON

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Physics Department

Dr. M.G. Cornwall

Ultrasonic amplification in piezoelectric
semiconductors
" " " "
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D.J. Ellis
Colin Wood

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Dr. A.F. Devonshire
Dr. H.F. Freundlich
Dr. D. Parsons

Magneto acoustics
Ferroelectrics
Medical ultrasonics
Propagation in liquid helium

Department of Aeronautical Engineering

Prof. A.R. Collar

Flutter, structural damping, mechanical
vibrations

Bristol General Hospital

Department of Medical Physics

Dr. J. Angell James
Dr. H.F. Freundlich
Dr. P.N.T. Wells
M.A. Bullen
D.H. Follett

Ultrasonic treatment of vertigo
Ultrasonics diagnosis and treatment
" " " "
" " " "
" " " "

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Department of Electrical Engineering

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E. Whipp

Speech analysis, telephony
Ultrasonic propagation in metals

Bristol Siddeley Engines Ltd.

John Denis Voce
Hylton Dawson

Compressor noise
" "

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Dr. T. Brooke Benjamin

Turbulence, aerodynamic noise
Cavitation, turbulence

UNITED KINGDOM - ENGLAND (Cont'd)CAMBRIDGE (Cont'd)
Cambridge University (Cont'd)
Department of EngineeringA.M.P. Brookes
Dr. R.W. Gregory
H.S.L. HarrisVibration and damping
Non-linear vibrations
" "Department of Geology and GeophysicsDr. D.H. Mathews
E.J.W. JonesAir piston source
" " "Department of Zoology, Madingley LaboratoryDr. W.H. Thorpe
Prof. R.A. HindeAnimal and bird acoustic behavior
" " " " "Applied Psychology Research Unit
15 Chaucer Road

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Dr. J.A. Leonard
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Miss Muriel M. Woodhead
A. CarpenterPsychoacoustics, effects of noise
Ultrasonic blind aids
Interaction of noise and sleeplessness
Effect of noise on visual tasks
Effect of noise on performanceCOLCHESTEREssex University
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Department of Mathematics

Dr. Ian Proudman

Turbulence, aerodynamics

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Electrical Engineering DepartmentDr. D.I. Crocraft
S. Gergely
L.R.V. HoareUltrasonic detection of stresses in metals
Ultrasonic propagation in metals
Ultrasonic blind aidsMechanical Engineering Department

C.J.M. Leo

Boundary-layer noise measurements

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Cranfield, Bedfordshire

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Advanced School of Automobile Engineering

Prof. J.R. Ellis
G.H. Tidbury
J.G. Fox
G.D. Whitehead

Tire and vehicle vibrations
" " " "
Response of humans to vibrations
" " " " " "

Department of Aerodynamics and Fluid Mechanics

Dr. T.H. Hodgson
G.S. Ram

Pressure fluctuation in turbulent shear flow
Aerodynamic noise

Department of Metal Physics

Prof. A.J. Kennedy
B.S. Hockenhull

Ultrasonic propagation in metals
Internal friction in metals

Department of Aircraft Propulsion

E.R. Norster
R.W. Roberts

Turbulent flame propagation, ultrasonic
atomization of fuels
Combustion noise

DURHAM

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Dr. K.N.R. Taylor

Magnetostriction
"

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Dr. F. Gray
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Seismology
"

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Acoustic back-scattering from fish
Sonar digital readout

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Physics DepartmentDr. J.R. Drabble
N.A. PortmanSound velocity in solids
Solids at microwave frequenciesFARNBOROUGHRoyal Aircraft Establishment
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D.R.B. Webb
Eric Maskell
K. HeronSonic bangs, underwater sound
" " " "
Vortex flows
Sonic bangs, acousticsHULLHull University
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Molecular vibrations, relaxations

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Auditory detection

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Dr. John P. WilsonPerception
Speech synthesis
Artificial pattern recognition, speech
analysisBruce Millar
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Ultrasonic investigations at microwave
frequencies at low temperatures.
Microwave acoustics propagation in metals

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Ultrasonic propagation in metals at low temperatures

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Combustion noise

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Turbulent boundary layers
Aerodynamic induced vibrations

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Dr. Morris G. Davies
Dr. Michael E. Bryan
Dr. William Tempest
Kenneth A. Mulholland
T.I. Hempstock

Building acoustics, psychoacoustics
Aerosonics
Audiology, response to low frequencies
" " " " "
Transmission through noles and slots
Audiometry

Electrical Engineering Department

Dr. Robert Holmes

Ultrasonic propagation in gases

Department of Oceanography

Dr. R.I. Tait
Ken Bowden

Underwater acoustics

LONDON

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Dr. Ernst Arthur Neppiras
Dr. Brian James Lavercombe
G.M.B. Webber
Graham John Curtis
M.H. Freeman

Physical acoustics
Propagation through foams
Ultrasonic cavitation
Acousto-optical effects, propagation in gases
Propagation in liquid metals
Concert Hall acoustics
Visualization of ultrasonic stress waves

LONDON (Cont'd)UNITED KINGDOM - ENGLAND (Cont'd)Imperial College (Cont'd)

John Parrot
 Ray T. Smith
 Ronald Young
 Brian Edward Evans
 Alan Trevor Fry
 A.A. Pollock
 Rex Sinclair
 Brian John Tunbridge
 Barry Webster
 R. Peters

Ultrasonic cavitation in liquid metals
 Propagation of shock waves
 Sonoluminescence in ultrasonic cavitation

Acoustic emission during deformation
 Gear noise

Gas bubbles in sound field

Telecommunications Department

Prof. E. Colin Cherry

Speech perception, analysis, communications,
 binaural hearing
 Speech analysis

J.J. Sparks

Department of Applied Mechanics

Dr. P. Grootenhuis
 Dr. D.E. Newland

Vibration damping
 Vibrations, damping, machinery noise

Department of Mathematics

Prof. M.J. Lighthill
 Dr. John E. Ffowcs Williams

Turbulence, aeroseonics
 Turbulence noise

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Neurophysiological aspects of hearing

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Ultrasonic bioacoustics, bat sonar

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Ultrasonic waveguides, vibrations of thin
 piezoelectric plates
 Noise studies of electrical machinery
 Ultrasonic cavitation in oils
 Plate vibrations

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 Dr. H. Tropper
 P. Lloyd

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Dr. J.I. Soliman
 Dr. S.W.E. Earles

Vibrations, random vibrations
 Vibration damping by friction

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Department of Mechanical Engineering

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Mechanical vibrations, flutter, random vibrations

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Pressure pulsations in tubes

S.R. Montgomery

Unsteady pipe flow

A.G. Parkinson

Vibrations of flexible shafts

R.P. Brann

Vibrations and automatic control

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Physiology of hearing

Dr. Ronald Hinchcliffe

Vestibular effects, ear impedance studies

Dr. John J. Knight

Audiology, industrial hearing loss, ear impedances

Dr. Ade D. Pye

Animal ear structures

Dr. A. Sokolowski

Middle ear experiments on cats

Prof. D.B. Fry

Audiology and deafness in children

A.S. Walker

Audiology re children

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Internal friction in metals

Dr. T. Hinton

" " " "

Dr. R. George Harlow

Propagation of sound in gases

Department of Mechanical Engineering

Z. Reif

Vibration isolation

J.W. Wielogorski

Hydraulic cavitation

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Fluid-induced vibrations

T.N. Gillbo

Subsonic vibrations in cutting

National College for Heating, Ventilation, Refrigeration and Fan Engineering

W.C. Osborne

Fan noise, noise analyses

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Ultrasonics propagation and applications
Internal damping in metals
Internal damping of crystals

Department of Mechanical Engineering

M.E. Gaylard

High-frequency fatigue, internal damping

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M.D.R. Jones

Insect acoustics

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Stress waves in mechanical wave guides
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Ultrasonic stress wave propagation
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Ultrasonic visualization
Ultrasonic visualization, diagnostic uses
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Ultrasonic power measurement, plotting of
acoustic fields
Medical ultrasonics

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Visualization of stress waves in solids

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Cochlear function, audiology, industrial
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Production of ultrasonic lesions in tissue
Ultrasonic regeneration of tissue

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Vertigo, deafness, cochlear and vestibular
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Ultrasonic treatment of vertigo, deafness

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Medical applications of ultrasound

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Ultrasonic propagation in metals, under-
water sound, transducers

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Ship structures and vibrations

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Growth of bubbles in polymers
Ultrasonic degradation of polymers, dynamic
mechanical testing of polymers
Acoustic cavitation in polymers

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Peter Grottenhuis

Noise and vibration control
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Ear impedances, artificial ears
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Hearing aids, telephone acoustics

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Velocity of sound in gases

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Noise in factories, effects on hearing,
ear defenders

Department of Applied Science

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Viscoelastic and dielectric properties
of polymers

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Piezoelectric semiconductors

Cadmium sulfide (White amplifier)

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Measure of evoked responses

Department of Mechanics of Fluids

Dr. J.H. Gerrard

Vortex shedding phenomena

Department of Metallurgy

Dr. George M. Leak

Internal friction of metals

Department of Mechanical Engineering

Dr. J.L. Livesey

Flow excited vibrations of heat-exchanger
tubes

R.C.F. Dye

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Department of Civil Engineering

Dr. R. Mathieson

Pulsating flows, cavitation erosion

Department of Occupational Health

Prof. T.S. Scott

Recovery of noise induced temporary hearing
loss

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Audiology, relation of hearing loss to noise
exposure

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Ambiophonic sound systems
Machinery noise and vibration
Artificial reverberation
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UNITED KINGDOM - ENGLAND (Cont'd)MANCHESTER (Cont'd)

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Mechanical Engineering Department

Prof. F.Koenigsberger
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Ultrasonics application in production
Diesel engine noise and vibration
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Noise surveys in cities

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Machinery noise and vibrations
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Mechanical vibrations
Aerodynamic induced vibrations of tubes
Propeller cavitation and ship vibration

Department of Industrial Health

Prof. R.C. Browne

Noise in power stations

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Heaton Works
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Building acoustics, machinery noise

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Microwave ultrasonics in Germanium

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Microwave ultrasonics re paramagnetic crystals
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UNITED KINGDOM - ENGLAND (Cont'd)NOTTINGHAM (Cont'd)Nottingham University (Cont'd)

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Microwave ultrasonic resonance
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Vibrations of plates and shells

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Noise in fan systems

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Microwave ultrasonics, magnetoacoustics
Propagation in solids at low temperatures

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Ultrasonic dispersion in gases

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Turbulence, vortex shedding, aerodynamics
Waves in anisotropic media

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Norman J. Pritchard

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Dr. J.S. Pyett
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Mr. N.T. Reynolds
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Sonar development
Acoustics Research
Ships sonar
Electroacoustics
Transducers
Transducers
Transducers
Acoustic reflections, element interaction
Acoustic measurements
Sonar signal processing
Propagation
Flow noise

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Vibration theory, damping

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Ultrasonic delay lines

Ultrasonic delay lines

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Speech analysis and synthesis

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Ultrasonics, transducers, cavitation

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Technological acoustics

Dr. Roy D. Ford

Structureborne sound

Jesse Butterworth

Flow visualization for Helmholtz resonator

Bryan F. Day

Highway noise, scale models

Michael Ibbot

Ultrasonic cavitation

John G. Walker

Repeatability of audiometric tests

Dr. B.W. Lowthian

Internal friction of alloys

Angus W. Walker

Sandwich walls

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Ultrasonic investigation of polymers

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Ultrasonics applied to medicine

Dr. M. Semain

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Mechanical vibrations

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Vibration of plates and beams

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Internal friction in aluminum

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Acoustics of solid rocket propellants
Combustion instability, supersonic combustion

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Aeroseonics, theory of turbulent noise

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Spectral analysis, correlation, organ pipes
Acoustic birefringence

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Aerodynamic noise
Structural vibrations and damping
Flutter
Control systems, chain-code siren

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Prof. (Emeritus) E.E. Zeppler
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Christopher L. Morfey

Structural vibrations and fatigue
Jet turbulence, mufflers
Aeroseonics, especially fan noise
Matrix analysis of vibration on problems
Diesel noise and vibration
Vibration damping
Psychoacoustics, sonic boom
Audiology
Propagation of sound in ducts, compressor noise
Fan noise, vortex noise
Acoustic instrumentation
Controls, wide-band siren
Turbulence in air jets
Correlation techniques re jet noise
Industrial and engine noises
Damping of aircraft structures
Audiology

Ian James Sharland
Peter Leonard Tanner
P.C. Parks
T.E. Base
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Automobile noise and vibration
Boundary layer noise

Ground reflection of sonic bangs

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Architectural acoustics, electroacoustics
Studio acoustics
Electroacoustics, stereophony
Studio acoustics
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Loudspeakers, microphones

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Impedance of ears, artificial ears
Bone conduction in hearing
Sound absorbers, anechoic rooms, reverberation
Noise measurement and control
Audiology, industrial noise

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High polymers at ultrasonic frequencies
Dynamic elastic propagation of polymers

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Turbulence
Vortex flows
Turbulence, stability
Boundary layer noise

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Hydrodynamics, flow noise
Psychoacoustics
Machinery noise and vibrations
Noise measurements, flow noise
Transducers
Propeller noise
Sonar, underwater sound
Transducer construction

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Building acoustics
Industrial noises
Sound propagation, concert hall acoustics
Traffic noise
Sound propagation

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Robert E. CraigResponse of fish to sounds
Fish sonarsDUNDEEQueen's College
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Elastic waves in inhomogeneous media

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Noise levels and hearing in jute industry

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J. MowatDeafness in the jute industry
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Aerosonics

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Monitoring of patient, including acoustics

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" " "Department of Inorganic and Physical ChemistryProf. T.L. Cottrell
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High polymer solutions
Electron-molecule interactionsDepartment of Physiology

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Vestibular apparatus, effects of vibration
on man

UNITED KINGDOM - SCOTLAND (Cont'd)EDINBURGH (Cont'd)Edinburgh University (Cont'd)Department of Clinical Surgery

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Use of ultrasound to produce ulcer

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Walter Lawrence

Speech analysis and synthesis

James A. Anthony

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Use of sonics and ultrasonics in occlusal
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Sound transmission of lightweight partitions

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Physical properties of modern materials used
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Ultrasonic propagation in viscoelastic liquids

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Microwave acoustics in solids

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Noise of electrical machinery

Dr. G. Harrison

Ultrasonic properties of viscoelastic liquids

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Laboratory studies of semiconductors

R.B. Wilson

Microwave acoustics of solids

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Engineering services for hospitals, including
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Hydraulic cavitation

Philip H. Tanner

Hydraulic cavitation, ship vibration

David Pirie

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Ship vibrations
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Department of Obstetrics and Gynaecology (Queen Mother's Hospital)

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Ultrasonic diagnosis applied to tumors
and pregnancy
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Viscoelastic behavior of polymers
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Machinery noise measurements, gear noise
Fluid filters
Ultrasonic cavitation erosion
Hydraulic cavitation
Gear noise

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Ultrasonic studies

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Hydraulic cavitation
Plate and turbine-blade vibrations

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Plate and shell vibrations

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Noise of mining machinery

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Acoustic wave guides
Factory and traffic noises
Turbine blade vibrations

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