

Compendium of pulp and paper training and research institutions

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FOREWORD

This compendium presents a world-wide list of institutions specialized in professional training in the pulp and paper industry sector and indicates the organizations involved in research and development programmes. The list is compiled alphabetically by country for ease of reference by users. The compendium lists all types of institutions ranging from custom-designed courses for a specific subject to be delivered within a company to conventional programmes on university campus. All sectors of training related to the industry are covered, including management, professional, technical, production activities in the wood and non-wood-based pulp and paper industry.

The Organization expresses great appreciation to the FAO Advisory Committee of Experts on Pulp and Paper who collaborated in the preparation of this document. It was compiled from answers received from institutions directly, from industry contacts or from professional associations.

The compendium provides the following information about each institution:

- name and address,
- name of director,
- telephone, telex and fax number,
- a short description of the programme offered, when available.

It is intended as a source of reference to anyone considering or requiring professional training in the sector, and would allow the user to contact directly the institute selected to obtain information on exact description of course, dates and duration and financial implications or other aspects of interest.

We would be pleased to receive any amendments and/or corrections, which would be used in subsequent revisions of the document. The contributions should be sent to:

Chief, Wood Industries Branch
Forest Products Division
Forestry Department
Food and Agriculture Organization of the United Nations
Via delle Terme di Caracalla
00100 Rome (Italy)

It is hoped that users will find this document a useful source of information on institutions providing training in the pulp and paper industry sector.



C. H. Murray
Assistant Director-General
Forestry Department

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ARGENTINA

1. Escuela Nacional de Educación Técnica (ENET)
Nro.1 Otto Krause
Av. Paseo Colón 650
Capital Federal

Telephone: (54 1) 331 5249/6865

2. Instituto Nacional de Tecnología Industrial (INTI)
Av. Leandro N. Alem 1067 - Piso 7
Capital Federal

Telephone: (54 1) 313 3013/3153/3092/3054/3243/3404/3253

Fax: (54 1) 3132130

Telex: 21859 INTI AR

3. Centro de Investigaciones de la Celulosa y el Papel (CICELPA)
Av. Gral. Paz entre Constituyentes y Albarelos
Casilla de Correo 157
CP. 1650

Telephone: (54 1) 7524901

Fax: (54 1) 7552102

This organization depends on the Instituto Nacional de Tecnología Industrial (INTI) and accepts scholarship students mainly from Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

It offers formal academic courses to students, research programmes for students, specialized training centre, and post graduate courses for engineers. Certificates of studies, not diplomas, are granted.

4. Universidad Tecnológica Nacional (UTN)
Sarmiento 440
Capital Federal

Telephone: (54 1) 3948075/322 3848/5194/6166

Certificates of studies, not diplomas, are granted.

5. Instituto Celulósico Papelero
Facultad de Ingeniería Química del Litoral - Santa Fe
Santiago del Estero
2829 Santa Fe, Provincia de Santa Fe

Telephone: (54 42) 20010-42025
Telex: 48153 INLIT AR

This institute depends on the Facultad de Ingeniería Química del Litoral and accepts scholarship students from such places as CONICET.

It offers formal academic courses to students, research programmes for students, and specialized training centre.

6. Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)
Av. Rivadavia 1917
Capital Federal

Telephone: (54 1) 953 0102/2802/1915/4671/4429
Fax: (54 1) 9534345
Telex: 18052 CITI AR

7. Univesidad Nacional de Misiones
Facultad de Ingeniería Química
Colón 1559
Posadas, Provincia de Misiones

Telephone: (54 752) 25414

Post-graduate courses on pulp and paper are offered with delivery of a certificate.

8. Asociación de Técnicos de la Industria Papelera y Celulósica Argentina
Av. Belgrano 2850
Capital Federal

Telephone: (54 1) 979716
Fax: (54 1) 979916

AUSTRALIA

1. Box Hill College of Technical and Further Education
Off-Campus Centre
P.O. Bag 2018
Box Hill, Victoria 3128

Telephone: (61 3) 8900789

Course designed for off-campus independent studies by mill operators.

Certificate of Pulp and Papermaking Technology

2. Australian Pulp and Paper Institute (APPI)
Department of Chemical Engineering
Monash University
Clayton, Victoria 3168

Telephone: (61 3) 5653422

Telex: MONASH AA 32691

Post-graduate education and research programme.

Master and Graduate Diploma in Engineering Science in Pulp and Paper Technology.
Course work occupies two semesters and is followed by completion of a minor thesis.

Note: Both programmes are supported by the Pulp and Paper Manufacturers Federation of Australia.

3. Commonwealth Scientific and Industrial Research Organization (CSIRO)
P. O. Box 225
Dickson, ACT 2602

Telephone: (61 6) 276 6491

Fax: (61 6) 276 6292

Contact: Ms. Sarah Ryan

Offers research and development facilities as well as training and courses for university students and pulp and paper professionals.

AUSTRIA

1. Papiermacherschule Steyermühl
Brunntalstraße 10
A-4662 Steyermühl

Telephone: (43 7613) 2195/2196
Fax: (43 7613) 219513

This is a professional training institute offering vocational training for skilled and unskilled workers.

It also offers seminars and courses on technical and economic topics, open to everyone.

This is a private organization, founded, run and financed by the Austrian paper industry.

2. Technische Universität Graz
Institut für Papier- Zellstoff- und Fasertechnik
Kopernikusstraße 24
A-8010 Graz

Telephone: (43 316) 8730
Fax: (43 316) 827685

This is an academic institution where, after 4 semesters of studies, students take 10 semesters in pulp and paper technology to graduate as "certified engineer" (Dipl. Ing.) or after an additional dissertation as "doctor of technological sciences" (Dr. Techn.).

BRAZIL

1. Foundation for the Technological Development of Engineering (FDTE)
University of São Paulo, Covenant with ABTCP/ANFCP/APFCP

Contact Mr. Francisco Bosco de Souza
Associação Brasileira Técnica de Celulose e Papel (ABTCP)
Rua Brigadeiro Galvão, 540 - Barra Funda
São Paulo, SP 01151

Telephone: (55 11) 8254061/66734
Fax: (55 11) 673754
Telex: (11) 34125

Specialized pulp and paper courses for engineers.

2. Escola Senai e Centro Tecnico de Celulose e Papel
Av. Presidente Kennedy, 66
Caixa Postal 300
Telemaco Borba, Paraná

Course Coordinator: Eng. Ademilson Massoqueti

Telephone: (55 422) 72 1995

Technical level course, one and a half year full time course plus half a year training.

3. Escola Senai Theoblado de Nigris
Rua Bresser, 2315
São Paulo, SP 03053

Course Coordinator: Eng. Roberto Rosa

Telephone: (55 11) 2649780/2649831

Technical level course, one-year full-time course plus half a year training.

4. Faculdades Oswaldo Cruz, Covenant with ABTCP

Contact Mr. Francisco Bosco de Souza
Associação Brasileira Técnica de Celulose e Papel (ABTCP)
Rua Brigadeiro Galvão, 540 - Barra Funda
São Paulo, SP 01151

Telephone: (55 11) 8254061/66734
Fax: (55 11) 673754
Telex: (11) 34125

Pulp and paper manufacture extension course at basic level.

5. Associação Brasileira Técnica de Celulose e Papel (ABTCP)
Rua Brigadeiro Galvão, 540 - Barra Funda
São Paulo, SP 01151

Coordinator: Mr. Francisco Bosco de Souza

Telephone: (55 11) 8254061/66734
Fax: (55 11) 673754
Telex: (11) 34125

Technology of pulp course (552 hours theoretical plus 32 hours training) for engineers with less than six months' experience in the sector.

Also offers technical informative short courses.

6. Instituto de Pesquisas Tecnológicas
Divisão de Produtos Florestais, Textéis e Couros
Agrupamento de Celulose e Papel
Av. Professor Almeida Prado, 532
São Paulo, SP 05508

Contact: Silãvia Bergman

Telephone: (55 11) 2682211 - R. 409

Specialized course for graduates level.

7. Universidade Federal do Paraná
Rua Bom Jesus, 650
Bairro Juveve
Caixa Postal 2959,
80035 Curitiba, Paraná

Contact: Nadir Silva Castro

Telephone: (55 41) 2527022
Fax: (55 41) 253 2332

Master in Forest Sciences - Pulp and Paper.

8. Universidade Federal de Viçosa,
Departamento de Engenharia Florestal
Av. P.H. Rolfs, s/n
36570 Viçosa, MG

Telephone: (55 31) 899 2465
Fax: (55 31) 891 1903
Telex: (31) 1587

Post-graduate and master courses.

9. Escola Superior de Agricultura "Luiz de Queiroz"
Universidade Estadual de São Paulo
Departamento de Ciências Florestais
Avenida Pádua Dias, 11
Caixa Postal 09
13400 Piracicaba, SP

Telephone: (55 194) 330011 (Ext. 4129/4174)
Fax: (55 194) 225925/338081
Telex: 091- 1141

Post-graduate and master courses.

10. Escola Politécnica da Universidade de São Paulo/IPT
USP - Cidade Universitária
C. Postal 7141
01000 São Paulo, SP

Telephone: (55 11) 268 2211
Telex: (011) 83144 INPT BR

Post-graduate courses.

11. Escola Técnica de Guaíba
Rua São Geraldo, 1680
92500 Guaíba, RS

Telephone: (55 512) 80 2301

Fax: (55 512) 80 2878

Middle level courses.

12. Associação Nacional dos Fabricantes de Papel e Celulose - ANFPC
Rua Afonso de Freitas, 199
04006 Paraíso, São Paulo, SP

Telephone: (55 11) 885 1845

Fax: (55 11) 885 3689

Telex: (011) 32659

BULGARIA

1. Nautchno Iszledovatiski Institut po Celuloza i Hartiia
Gara Iskr
BG-1528 Sofia

Direktor: K. Szavov

Telex: 22 673

CANADA

1. Sault College of Applied Arts and Technology
Pulp and Paper Program
P.O. Box 60
Sault-Ste-Marie, Ontario P6A 5L3

Contact: Mr. Adam Sugden

Telephone: (1 705) 7596700

Pulp and paper technology programme, six semesters.

2. British Columbia Institute of Technology
Pulp and Paper Program
2700 Wellington Avenue
Burnaby, B.C. V7G 3H2

Contact: Mr. Steven Berghold

Telephone: (1 604) 432 8887

Fax: (1 604) 431 9258

Pulp and paper technology programme, four semesters.

3. Centre Spécialisé en Pâtes et Papiers
CEGEP de Trois-Rivières
2250, rue St. Olivier
C.P. 97
Trois-Rivières, Quebec G9A 5E6

Director: Mr. Pierre Lavoie

Telephone: (1 819) 3761721

Fax: (1 819) 3761026

Pulp and paper technology programme, six semesters.

4. Canadian Pulp and Paper Association (CPPA)
Human Resources Section
1115 Metcalfe Street
Montréal, Quebec H3B 4T6

Contact: Mr. Sylvain-Yves Longval

Telephone: (1 514) 8666621

Fax: (1 514) 8663035

Intensive short courses to technically oriented personnel from the pulp and paper industry.

Modular training programme for operators and technical personnel to be used in a mill training environment.

5. Pulp and Paper Research Institute of Canada (PPRIC)
570 St. John's Boulevard
Pointe-Claire, Quebec H9R 3J9

Contact: Ms. Sylvie Labossière

Telephone: (1 514) 6304100

Fax: (1 514) 6309444

Two-week course on the fundamentals of pulping and papermaking, requires at least a bachelor's degree or equivalent in engineering or science.

CHILE

1. Universidad de Concepción
Laboratorio de Productos Forestales (Investigación)
Barrio Universitario
Casilla 20 - C
Concepción

Telephone: (56 41) 234985
Fax: (56 41) 222712
Telex: 260004 TEUCO CL

- 2- Universidad del Bio-Bio
Avda. Collao 1202
Casilla 5 - C
Concepción

Telephone: (56 41) 314364
Fax: (56 41) 314364
Telex: 343135 UNBIO CL

3. Universidad de Chile
Escuela de Ciencias Forestales
Departamento de Tecnología de la Madera
Casilla 9206
Santiago

Telephone: (56 2) 5587042
Fax: (56 2) 558 7635

Academic courses in raw materials, pulping and papermaking technology, and recycling. The university also offers specialized courses on various pulp and paper issues.

4. Asociación Técnica de la Celulosa y el Papel, ATCP - Chile
Lincoyan 199 - 2º Piso
Casilla 74 C
Concepción

Telephone: (56 41) 237679

5. Instituto Profesional Virginio Gómez
Arturo Prat 451
Los Angeles

Telephone: (56 43) 322544

6. Instituto Profesional Diego Portales
Maipu 301
Concepción

Telephone: (56 41) 229454

CHINA

1. Paper Industrial Research Institute
No. 12 Guang Hua Road
Beijing 100020

Telephone: (86 1) 5022561
Fax: (86 1) 500359

Offers graduate studies and research activities in pulping, papermaking and environmental abatement, as well as training and courses for paper mills operators.

2. Westnorth Light Industrial College
Xian-Yang City 712081

Telephone: 4389

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

3. Tian-Jin Light Industrial College
Tian-Jin City 300222

Telephone: (86 22) 840965

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

4. Hubei Industrial College
Wuban City 430068

Telephone: (86 27) 873865

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

5. Dalian Light Industrial College
Dalian City 116011

Telephone: (86 411) 641891

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

6. Huanan Technical University
Guangzhou City 510641

Telephone: (86 20) 774433

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

7. Beijing Forestry University
Beijing 100083

Telephone: (86 1) 2568811

Offers undergraduate and graduate studies in forest products and pulp and paper technology.

8. Nanjing Forestry University
Nanjing 210037

Telephone: (86 25) 653231

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

9. Eastnorth Forestry University
Harbin 150040

Telephone: (86 451) 63161

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

10. Hebei Light Industrial and Chemical Engineering College
Shijiazhuang City 050018

Telephone: (86 311) 47946

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

11. Shandong Light Industrial College
Jinan City 250100

Telephone: (86 531) 44221

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

12. Fujian Forestry College
Nanping City 35300

Telephone: 25677

Offers undergraduate and graduate studies in forest products and pulp and paper technology.

13. Guangxi University
Nanning City 530004

Telephone: (86 771) 33231

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

14. Yunnan Industrial College
Kunming City 65005

Telephone: (86 871) 29031

Offers undergraduate and graduate studies in pulp and paper technology as well as courses for paper mills operators and technicians.

COLOMBIA

1. Asociación Colombiana de Técnicos de la Industria de Pulpa, Papel y Cartón (ACOTEPAC)
Apartado Aéreo 67118
Medellín

President: Sr. Orlando Aristizabal

Telephone: (57 4) 2305544

This association offers technical seminars and is initiating the implementation of a technical school and a training centre for the paper industry.

2. Universidad Industrial de Santander (UIS)
Facultad de Ciencias
Centro de Investigaciones en Celulosá y Papel (CICELPA)
Apartado Aéreo 678
Bucaramanga

Director: Ing. Carlos Omar Briceño

Telephone: (57 76) 452101/456141

Master degree in pulp and paper with courses in all areas of pulp and paper technology.

3. Asociación Nacional de Industriales - ANDI
Comité de Pulpa, Papel y Cartón
Calle 15 N° 35-110
Autopista Cali-Jumbo
Apartado Aéreo 244
Cali

Coordinator: Doctora Maria del Rosario Marmolejo

Telephone: (57 23) 652650

Fax: (57 23) 652701

Telex: 055531

CZECHO-SLOVAKIA

1. Vyvojovy a Racionalizacni Ustav
Prumyslu Papiru a Celulozy
Pristavni 1
CS - Praha 7

Direktor: Jaroslav Tauc

Telex: 121 890

2. Vyskumny Ustav Papieru a Celulozy
Lamacka 3
CS-81520 Bratislava

Direktor: Ing. Boris Hradecky

Telex: 93 278

FINLAND

1. Helsinki University of Technology
Linkage Programme
Otakaari 1
SF-02100 Espoo

Course Director: Professor Paavo Uronen

Telephone: (358 0) 451 4025

Fax: (358 0) 451 4068

Telex: 125161 h.tkk sf

Graduate level programme in process control and production management for finnish and foreign students.

2. Helsinki University of Technology
Department of Forest Products
Vuorimiehentie 1
SF-02150 Espoo

Telephone: (358 0) 4511

Offers courses in pulp and paper technology.

3. Åbo Akademi University
Faculty of Chemical Engineering
Domkyrkotorget 3
SF-20500 Åbo

Telephone: (358 21) 654311

Offers courses in pulp and paper chemistry.

4. Lappeenranta University of Technology
Department of Chemical Technology
P.O. Box 20
SF-53851 Lappeenranta

Telephone: (358 53) 5711

Offers courses in paper technology.

5. Tampere University of Technology
Department of Material Sciences
P.O. Box 527
SF-33101 Tampere

Telephone: (358 31) 162111

Offers courses in extrusion technology.

6. University of Oulu
Department of Process Technology
Linnanmaa
SF-90570 Oulu

Telephone: (358 81) 353611

Offers courses in paper machines, process control and instrumentation.

FRANCE

L'Institut pour la Recherche et la Formation Professionnelle de la Production, de la Transformation et de la Distribution des Papiers-Cartons et des Industries Connexes (IRFIP), is the organization grouping all institutes involved in training in the pulp and paper sector in France.

Three addresses:

- IRFIP
154, Boulevard Haussman
75008 Paris

President: M. Gilbert Lescop

Telephone: 45628707
Fax: 45628247
- IRFIP Sud-Est
66, Blvd du Maréchal-Foch
BP 383
38015 Grenoble Cedex 01

Délégué Régional: M. Nicolas Le Riche

Telephone: 76498510
- IRFIP Est
2, rue Girardet
BP 433
54001 Nancy Cedex

Délégué Régional: M. Gérard Izarn

Telephone: 83355132/83370402

Institutes offering courses and degrees in the pulp and paper sector:

1. Ecole Française de Papeterie et des Industries Graphiques
Domaine Universitaire
BP 65
38402 Saint-Martin D'Hères

Directeur: Monsieur Renaud

Telephone: 76826900

Offers engineering degree.

2. Lycée Vaucanson
27, rue Anatole France
38000 Grenoble

Proviseur: M. Gibello

Telephone: 76965518

Offers technician degree, superior and ordinary level.

3. Lycée d'Aire sur l'Adour
Route de Geaune
40800 Aire sur l'Adour

Proviseur: M. Pichon

Telephone: 58515300

Offers technician degree, superior and ordinary level, and degree for production and maintenance agents.

4. Lycée de Limoges
14, rue Puy Imbert
87000 Limoges

Proviseur: M. Garcia

Telephone: 55334682

Offers technician degree, superior level, and degree for production agents.

5. Centre de Formation Papetier
6, rue Gérard d'Alsace
88400 Gérardmer

Contact: M. Belliard.

Telephone: 29632203

Offers technician degree, superior and ordinary level, and degree for production and maintenance agents.

6. Lycée de Gérardmer
Route de la Rochotte
88400 Gérardmer

Contact: M. Belliard

Telephone: 29632203

Offers degree for production and maintenance agents.

7. Lycée d'Haguenau
123, route de Strasbourg
67504 Haguenau

Proviseur: M. Gliech

Telephone: 88930491

Offers technician degree, ordinary level, and degree for production and maintenance agents.

8. Lycée de Domène,
Rue Gustave Rivet
38420 Domène

Proviseur: M. Boisliveau

Telephone: 76770485

Offers degree for production and maintenance agents.

9. Ecole Industrielle de Rouen
50, rue Méridienne
76100 Rouen

Directeur: M. Perdriel

Telephone: 35725535

Offers degree for production and maintenance agents.

10. Lycée de Parentis
Rue du Lycée
40160 Parentis en Born

Proviseur: M. Martin

Telephone: 58784265

Offers degree for production and maintenance agents.

GERMANY

1. Technische Hochschule Darmstadt
Institut für Papierfabrikation,
Alexanderstraße 8
D-6100 Darmstadt

Contact: Prof. Dr. Lothar Götsching

Telephone: (49 6151) 162154

Fax: (49 6151) 162454

Telex: 419 452 ifp d

2. Technische Universität Dresden
Institut für Papiertechnik
Mommsenstraße 13
D-8027 Dresden

Contact: Prof. Dr.sc.techn. J. Blechschmidt

Telephone: (37 51) 4630

Fax: (37 51) 4593028

Telex: 069-2278

3. Papiermacherzentrum Gernsbach
Scheffelstraße 29
D-7562 Gernsbach

Contact: Dr. Wilfried Haible

Telephone: (49 7224) 6401 92

Fax: (49 7224) 6401 14

Telex: 78920 pmz

Institution sponsored by the German pulp and paper industry which offers courses in pulp and paper technology and in mill management.

4. ZEPA Engineering GmbH
Pirnaer Str. 31/33
D-8312 Heidenau

Rektor: Dipl. Ing. R. Ocken

Fax: (37 51) 9244172

5. Forschungszentrum Verpackung
Reisstraße 42
D-8017 Dresden

Direktor: Mathes

Telex: (37 51) 2338

HUNGARY

1. Papiripari Kutatóintézet Kft.
Duna u. 57
H-1215 Budapest

Managing Director: Dr. Éva Polýánszky

Fax: (36 1) 2773750

2. Technical Association of the Paper and Printing Industry
Fő u. 68
H-1371 Budapest

Contact: Mrs. Anna Wertheim

Fax: (36 1) 2020256

JAPAN

The following institutions offer courses in forest products:

1. Hokkaido University
Forest Products Course in Faculty of Agriculture
9-chome, 9 jyo-nishi
Kita-ku
Sapporo City 060

Telephone: (81 11) 7162111
2. The University of Tokyo
Forest Products Course in Faculty of Agriculture
1-1, Yayoi 1-chome
Hunkyo-ku
Tokyo 113

Telephone: (81 3) 38122111
3. Tokyo University of Agriculture and Technology
Forest Products Course in Faculty of Agriculture
8-1 Harumicho 3-chome
Fuchu City
Tokyo 183

Telephone: (81 423) 643311
4. Shizuoka University
Forest Products Science Course in Faculty of Agriculture
836 Otami
Shizuoka City, 422

Telephone: (81 542) 371111
5. Kyoto University
Wood Science and Technology Course in Faculty of Agriculture
Oiwakecho, Kitashirakawa
Sakyi-ku
Kyoto City, 606

Telephone: (81 75) 7512111

6. Kyushu University
Forest Products Course in Faculty of Agriculture
10-1 Hakozaki 6-chome
Higashi-ku
Fukuoka City, 812

Telephone: (81 92) 6411101

MEXICO

1. Universidad de Guadalajara
Instituto de Madera, Celulosa y Papel "Ing. Karl Augustín Grellmann"
Apartado Postal 4-120
44400 Guadalajara, Jalisco

Telephone: (52 36) 137659/137660/137661

Fax: (52 36) 137661

Telex: 0682744 XHUGME

Director: Ing. José Turrado Saucedo

NORWAY

1. Technical University of Norway
Department of Cellulose Technology
Trondheim

Contact: Prof. Per Koch Christensen, or
Prof. Torbjorn Helle

PERU

1. Universidad Nacional Agraria
Facultad de Ciencias Forestales
Departamento de Industrias Forestales
Av. La Universidad s/n
A.P. N° 456
La Molina - Lima 17

Contact: Ing. Enrique González Mora

Telephone: (51 14) 352035 (Ext. 227)

Fax: (51 14) 377912

Offers academic programme at superior level in pulp and paper technology.

PORTUGAL

1. Universidade da Beira Interior
Rua Marquês d'Avila e Bolama
6200 Covilhã

Director: Prof. Dr. M. Santos Silva

Telephone: (351 75) 314207

Fax: (351 71) 26198

Telex: 53733 UBI P

Graduate Course in Paper Engineering consists in two cycles, basic lasting 2 years, and specialized lasting 3 years.

Master Degree in Paper and Forest Products Science and Technology which lasts 2 years and is open to industry technicians and teachers.

Scholarships are available.

2. Escuela Superior de Tecnologia de Tomar
Ave. Cândido Moreira, 13
2300 Tomar

Director: Prof. Eng. Rui Sant'Ovaia

Telephone: (351 49) 321500

Fax: (351 49) 321750

Telex: 44561 ESTT P

Offers cellulose and paper technology courses on a three-year programme.

ROMANIA

1. Institutul de Cercetari si Proectari
pentru Celuloza si Hirtie
B. A1. I. Cuza St. 3
RO-6100 Braila

Direktor: G. Borhan

Telex: 55 240

RUSSIAN FEDERATION

1. Pulp and Paper Technology Institute
Ivana Tchernich 4
SU-198092 Saint Petersburg

2. Vsesoiuzno Nautchno Promyslennoe
Obedinenie Bum. Prom
Pr. Svernka 49
SU-194021 St. Petersburg

Generalni Direktor: A.I. Ivanov

Fax: (7 812) 2478063

3. Centralnii Nautchno Isledovatelski
Institut Bumagi
ul. Lenina d. 15/1
SU-141290 Pravdinski (Moskovskaia oblast)

Direktor: B.V. Drelov

Telex: 846156

4. Ukrainskoe Nautchno Promyslennoe
Obedinenie Bu. Prom
ul. Kutuzova d. 18/7
SU-252133 Kiev

Generalni Direktor: N.T. Lozovik

SPAIN

1. Universidad Politécnica de Cataluña
Escuela Técnica Superior de Ingenieros Industriales de Terrasa
Especialidad Gráfica y Papelera
Calle Colón 11
08222 Terrassa, Barcelona

Professor in charge: José F. Colom

Telephone: (34 3) 7398172/7860193
Fax: (34 3) 7398101

2. Universidad Politécnica de Madrid
Escuela Superior de Ingenieros de Montes
Ciudad Universitaria
28040 Madrid

Professor in charge: Luis Sierra

Telephone: (34 1) 3367007

3. Universidad Politécnica de Madrid
Escuela de Ingeniería Técnica Forestal
Ciudad Universitaria
28040 Madrid

Professor in charge: Cristina Molleda

Telephone: (34 1) 3367661
Fax: (34 1) 5446025

4. Escuela de Ingeniería Técnica Papelera
Calle del Papel s/n
20400 Tolosa, Guipuzcoa

Head Professor: Antonio Morán Verdú

Telephone: (34 43) 672900
Fax: (34 43) 672078

SWEDEN

1. The Royal Institute of Technology
S-100 44 Stockholm

Telephone: (46 8) 790 6000

Fax: (46 8) 109199

Graduate and undergraduate studies, and research activities in wood chemistry:
Professor Göran Gellerstedt, extension 8109

Graduate and undergraduate studies and research activities in cellulose technology:
Professor Nils Hartler, extension 8100

Undergraduate, graduate and research studies in paper technology.

Process technology: Professor Bo Norman, tel 7908117, fax 7966080

Material science: Professor Christer Fellers, tel 6767196, fax 115518

Coating technology: Professor Mikael Rigdahl, tel 6767195, fax 115518

Paper chemistry: Professor Lars Ödberg, tel 6767249, fax 115518

Packaging materials: Professor Sören Cavlin, tel 7525700, fax 7513889

2. Chalmers University of Technology
Department of Engineering Chemistry,
S-412 96 Göteborg

Telephone: (46 31) 721000

Fax: (46 31) 723872

Offers academic training and research facilities at undergraduate and graduate levels
in the pulp and paper field.

3. The University of Lund
Box 117
S-221 00 Lund

Telephone: (46 46) 107000
Fax: (46 46) 104720

Under the Chemical Engineering programme, offers a specialization in pulp and paper at the following levels:

- Undergraduate courses at Master's level (4.5 years of study) and engineering level (2 years of study);
- Graduate and research education.

Contact: Professor Roland Wimmerstedt, Dean, Chemical Engineering Dept.

4. Karlstadt University College
Box 9501
S-650 09 Karlstadt

Telephone: (46 54) 838000
Fax: (46 54) 119497

Under the Chemical Engineering Department offers an academic programme in pulp and paper training which includes raw materials technology, process computer control and biotechnics. The students must complete a four-month period of work in the industry in order to graduate.

This programme is sponsored by the Swedish Pulp and Paper Association.

5. Swedish Pulp and Paper Research Institute
Box 5604
S-114 86 Stockholm

Telephone: (46 8) 6767000
Fax: (46 8) 115518

A cooperative research institute with universities (mostly with the Royal Institute of Technology). It provides the basis for education of young graduate engineers and scientists in the pulp and paper sector. Also offers further education to technicians employed in the industry.

6. The Educational and Training Centre of the Swedish Forest Industries
S- 28537 Markaryd

Telephone: (46 433) 11280

Fax: (46 433) 16725

The centre offers courses for operators, production and technical as well as management personnel. Advanced courses for engineers from developing countries are available, 11 weeks for pulp and paper technology, 9 weeks for environmental programme.

UNITED KINGDOM

1. Robert Gordon's Institute of Technology
School of Chemistry
St. Andrew Street
Aberdeen, AB1 1HG

Head of School: Professor I.W. Nowell

Telephone: (44 224) 633611 (Ext. 568)

Diploma and certificate in paper technology.

2. Bury Metropolitan College
Market Street
Bury, Lancashire BL9 0BG

Contact: Messrs. Les Bradborn or Roy Fairhurst

Telephone: (44 61) 7631505 (Ext. 47)

Courses for operators, technicians, supervisors and middle managers.

3. University of Wales
School of Agriculture and Forest Sciences
Bangor, Gwynedd LL57 2UW

Head: Professor J. B. Owen

Admissions Tutor: Dr. W.B. Banks

Telephone: (44 248) 351151

Fax: (44 248) 354997

Telex: 61100 UCNW

4. University of Manchester
Institute of Science & Technology
Department of Paper Science
P.O. Box 88
Manchester, M60 1QD

Head: Professor N. Wiseman
Admissions Tutor: Dr. D. J. Priest

Telephone: (44 61) 2003897
Fax: (44 61) 2003858
Telex: 666094 UMIST G

Master of Science degree in Forest Industries and Paper Technology.

First year of studies at University of Wales in Bangor followed by second year either at same university or at University of Manchester.

5. PIRA International Training Group
Randalls Road
Leatherhead, Surrey KT22 7RU

Telephone: (44 372) 376161
Fax: (44 372) 377531
Telex: 929810 PIRA G

Degree at post-graduate level.

UNITED STATES OF AMERICA

1. University of Alabama
Chemical Engineering Department
241 Mineral Industries Building
Box 870203
Tuscaloosa, AL 35487-0203

Prof. Gary C. April

2. Auburn University
College of Engineering
242 Ross Hall
Auburn, AL 36849-5128

Dr. Ronald D. Neuman, Director, Pulp and Paper Research.

3. University of Florida
Gainesville, FL 32611

Dr. Arthur Fricke, Professor Chemical Engineering (Room 429)

4. Institute of Paper Science and Technology
575 14th Street, N.W.
Atlanta, GA 30318

Dr. R. Matula, Director.

5. Georgia Institute of Technology
School of Chemical Engineering
Atlanta, GA 30332-0100

Dr. Jeffrey S. Hsieh, Director, Pulp and Paper Engineering.

6. University of Georgia
Dept. of Biochemistry
Boyd Graduate Research Center
Athens, GA 30602

Dr. Karl-Erik Erikson

7. University of Idaho
Chemical Engineering Department
Moscow, ID 83843

Dr. Lewis L. Edwards

8. University of Lowell
Chemical Engineering Department
1 University Avenue
Lowell, MA 01854

Prof. John Wilkinshaw

9. University of Maine - Orono
Chemical Engineering Department
115 Henness Hall
Orono, ME 04459

Dr. David J. Kraske, Chairman

10. Michigan State University
College of Agriculture and Natural Resources
School of Packaging
East Lansing, MI 48824

Prof. Harold A. Hughes, Director

11. Western Michigan University
Dept. of Paper and Printing Science and Engineering
Kalamazoo, MI 49008-3843

Dr. Raymond Jones

12. University of Minnesota
Dept. of Paper Science & Engineering
2004 Falwell Avenue
St. Paul, MN 55108-1305

Dr. Robert H. Rouda, Program Director

13. Mississippi State University
Department of Chemical Engineering
P.O. Drawer CN
Mississippi State, MS 39762

Prof. George Lightsey

14. North Carolina State University
College of Forest Resource
P.O. Box 8005
Raleigh, NC 27695-8005

Dr. Laurence Tombaugh, Dean

15. Rutgers, The State University of New Jersey
Center of Packaging Engineering
Busch Building 3529
P.O. Box 909
Piscataway, NJ 08854

Prof. Dorinda A. Sparacio, Undergraduate Coordinator

16. State University of New York
Paper Science and Technology
Walters Hall
Syracuse, NY 13210

Dr. Leland R. Schroeder, Chairman

17. Rochester Institute of Technology
School of Printing
P.O. Box 9887
Rochester, NY 14623-0887

Dr. Joseph E. Brown

18. Miami (Ohio) University
229 Gaskill Hall
Oxford, OH 45056

Dr. William Scott, Chairman Paper Science and Engineering

19. Oklahoma State University
College of Engineering
Stillwater, OK 74078

Dr. Karl N. Reid, Dean

20. Oregon State University
Department of Forest Products
Pulp and Paper Technology
Corvallis, OR 97331

Prof. Christopher Biermann

21. Lehigh University
Center for Polymer Science and Engineering
Mountaintop Campus
Bldg. A, Room D330
Bethlehem, PA 18105

Dr. Mohamed El-Aasser, Director

22. Texas A. & M. University
Department of Chemical Engineering
College Station, TX 77843

Dr. James S. Yagoobi

23. University of Washington
College of Forest Resources
Anderson Hall
Seattle, WA 98020

Dr. David Thorud, Dean

24. University of Wisconsin - Madison
Dept. of Forestry, Wood Chemistry and Textile Science
1630 Linden Drive
Madison, WI 53706

Prof. Raymond A. Young

25. University of Wisconsin - Stevens Point
Paper Science Engineering
910 Arts Lane
Stevens Point, WI 54481-9542

Dr. Lawrence Graham, Chairman

26. Technical Association of the Pulp and Paper Industry (TAPPI)
P.O. Box 10113
Atlanta, GA 303480

Telephone: (1 404) 4461400

Fax: (1 404) 4466947

Organizes training courses, seminars and conferences for employees of all levels in the pulp and paper industry.

27. Paper Industry Management Association (PIMA)
2400 East Oakton Street
Arlington Heights, ILL 60005

Telephone: (1 708) 9560250
Fax: (1 708) 9560520

Organizes courses, conferences for all participants interested in the pulp and paper industry, with special focus on all levels of management.

YUGOSLAVIA

1. Institut za Celulozo in Paper
Bogisiceva ul. 8.
YU-610 004 Ljubljana

Direktor: Janez Hocevar

Fax: (38-61) 217 797

Telex: 31719