



IFKT INTERNATIONAL FEDERATION OF KNITTING TECHNOLOGISTS  
IFWS INTERNATIONALE FÖDERATION VON WIRKEREI- UND STRICKEREI-FACHLEUTEN

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## **List of Congresses of the International Federation of Knitting Technologists (IFKT)**

## **Liste der Tagungen der Internationalen Föderation von Wirkerei- und Strickerei-Fachleuten IFWS**

I. Consultations / Beratungen in Dornbirn / Austria  
Teilnehmer/participants: 28

II. Consultations / Beratungen in Dornbirn / Austria

### **III. International Congress 4. – 6.8.1958 in Dornbirn / Austria and St. Gallen / Schweiz**

Präsident/President: Textiling. Hans Keller

Teilnehmer/participants: 70

#### **Vorträge / papers:**

Die Organisation des Arbeitsablaufes in der Zuschneiderei  
Paul Frei, ETH Zürich / Schweiz

Die Verarbeitung von Helanca-Garn zu Wirk- und Strickwaren  
O.T. Stutz, Wattwil/Schweiz

Die bei der Maschenwarenherstellung auftretenden Fehlerquellen  
E. Tschallener, Dornbirn/Österreich

Progrès dans le domaine de la mercerisation des jersey en coton  
A. Cozzi, Milano/Italia

Die Einstellung von Kettenwirkmaschinen  
E. Prusa, Wien/Österreich

Cellule photoélectrique sur machines à tricoter  
P. Oriol, J. Palomer Pons, Barcelon/España

Methodische Arbeitsbeschreibung in der Strickerei  
S. Reinhard, Travemünde/BRD

#### **IV. International Congress 10. – 12.9.1959 in Milano / Italia**

Präsident/President: Prof. Attilio Tremelloni

##### **Vorträge / papers:**

Nouvelle machine circulaire à tricoter sans aiguilles  
J. Palomer Pons, Barcelona/España

Knitting Machine Design  
J.C.H. Hurd, Leicester/U.K.

Kurzer Rückblick auf die bisher von der Föderation geleistete Arbeit  
H. Luxa, Neumünster/BRD

Möglichkeiten und Vorteile des Einsatzes von Chemiefasern in der Wirkerei und Strickerei  
W. Meyer, Wuppertal/BRD

Der betriebliche Nutzen graphischer Darstellungen in der Wirkerei und Strickerei  
E. Prusa, Wien/Österreich

Analyses des problèmes concernant la productivité des machines à tricoter circulaires  
G. Marchisio, Torino/Italia

#### **V. International Congress 22. – 23.9.1960 in Troyes / France**

Präsident/President: Prof. Jean Dury

##### **Vorträge / papers:**

Variations sur l'évolution et l'avenir des traitements thermiques du bas et articles pouvant y être assimilés  
M.D. Héliot, Troyes/France

Development in the Design of Double Cylinder Knitting Machines  
F.E. Deans, G.A. Buswell, Leicester/U.K.

Maschenwaren aus Chemiefasern – heute und in der Zukunft  
F. Furkert, Wuppertal/BRD

Standardisation des jauges et des métiers de tricotage  
A. Tremelloni, Milano/Italia

Amélioration du dispositif de sélection sur métiers circulaires Jacquard  
J. Palomer Pons, Barcelona/España

Über einige Probleme der Wirkereiforschung  
G. Edelmann, Karl-Marx-Stadt/DDR

Die Transportanlagen im modernen Organisationsablauf der Konfektion  
M.L. Pfeiffer, BRD

La Fédération, La Section Nationale, La Liaison: Industrie –Recherche –Enseignement  
J. Dury, E. Voisin, I. Leclerque, Troyes/France

## **VI. International Congress 9. – 11.10.1961 in Manchester / U.K.**

Präsident/President: J.C.H. Hurd, FTI

### **Vorträge / papers:**

The Technology of Sweater Manufacture in the United States  
C. Reichman, New York/USA

Developments in Automatic Full-Fashioned Outerwear machines  
E. Start/U.K.

Die Entwicklung der Strumpfautomaten zur Erzeugung nahtloser Damenstrümpfe  
R. Canzler, Ingolstadt/BRD

Die Endausrüstung von Wirk- und Strickwaren aus synthetischen Fasern  
W. Brennecke, Wuppertal/BRD

Modern Knitting Control  
J.C.Hopkins, Nottingham/U.K.

Variations dimensionnelles des tissus à maille. Une évaluation des méthodes de mesurage  
E. Voisin, Troyes/France

## **VII. International Congress 19. - 20.7.1962 in Dornbirn/Austria**

Präsident/President: Prof. Ing. Ernst Prusa

Teilnehmer/participants: 26 aus/from 9 Ländern/countries

### **Vorträge / papers:**

Betrachtung der Entwicklungsrichtungen zur Herstellung textiler Stoffe  
H. Kirchenberger, Wien/Österreich

Welche Wirk- und Strickmaschinen können zukünftig zur Herstellung gewebeähnlicher Maschenwaren verwendet werden?  
E. Prusa, Wien/Österreich

Elektrooptische Fehlerüberwachung an Wirkmaschinen  
G. Edelmann, Karl-Marx-Stadt/DDR

Mehrstellenarbeit in der Wirkerei und Strickerei  
H. Albers, Darmstadt/BRD

Der Flachstrickmaschinenbau auf neuen Wegen  
E. Prusa/Wien

Nähmaschinen-Typen in Bezug auf die verschiedenen Waren und Fertigungsmethoden  
K. Wiechmann, München /BRD

New Methods of Making-up knitted outerwear and underwear  
L. Balestrini, Milano/Italia

Die Heranbildung von Fachkräften für die Wirkerei und Strickerei  
E. Tschallener, Dornbirn/Österreich

## **VIII. International Congress 18. – 20.9.1963 in Reutlingen / Germany**

Präsident/President: Dipl.-Ing. Rolf Canzler

Teilnehmer/participants: 109 aus/from 9 Ländern/countries

### **Vorträge / papers:**

Die Maschenwarenindustrie aus europäischer Sicht  
B. Eggensperger, Suttgart/BRD

Thermophysiologische Einflüsse textiler Faserstoffe und ihre Bedeutung für den Verarbeiter  
F. W. Behmann, Bad Nauheim/BRD

Normenvorschlag für Kettenwirkmaschinen  
O. E. Engelhard, USA

Texturierte Garne und ihre Verarbeitung in der Maschenwarenindustrie  
H.-J. Studt, Wuppertal/BRD

Arbeitskreis „Internationale Maschinennormung“  
R. Canzler, Deutschland

Arbeitskreis „Patronieren von Wirk- und Strickwaren“  
E. Prusa, Österreich

Recent developments in the field of synthetic, especially elastomeric fibers, and their application in the knitting industry  
Neuere Entwicklungen auf dem Gebiet der synthetischen Chemiefasern, insbesondere Elastomeren und ihre Anwendung in der Wirkerei und Strickerei  
Nouveaux developpements dans le domaine des fibres synthetiques et en particulier d'elastomeres et leur emploi dans l'industrie de la maille  
L. Mehrmann, Wilmington/USA

Prüfgeräte und Prüfmethode der Wirkerei und Strickerei  
J. Lünenschloss, Reutlingen/BRD

Wirk- und Strickmaschinen auf der 4. Internationalen Textilmaschinenausstellung in Hannover 1963  
E. Prusa, Wien/Österreich

## **IX. International Congress 3. – 7.11.1964 in Barcelona and Canet de Mar / Spain**

Präsident/President: Prof. Jorge Palomer Pons

Teilnehmer/participants: 350 aus/from 13 Ländern/countries

### **Vorträge / papers:**

Sitzung Arbeitsauschuß Ausbildung, Dokumentation, Repräsentation  
Jean Dury, Roanne, Frankreich  
Attilio Tremelloni, Mailand, Italien  
Ernst Prusa, Wien, Österreich

Klassierungs- und Organisationsfragen  
J. Dury, Roanne/Frankreich

Farbtonregelmäßigkeit bei Gestrickten aus Texturgarnen  
J. Rius Sintes, Barcelona/Spainien

Fadenspannungsmessungen bei Strickmaschinen  
G. Edelmann, Karl-Marx-Stadt/DDR

Bekleidungsphysiologische Eigenschaften von Maschenwaren  
J. Mecheels, Hohenstein/Deutschland

Regulärränder auf Rundstrickmaschinen  
E. Prusa, Wien/Österreich

Berstdruckprüfung von Gewirken  
Alois Vékássy, Budapest/Ungarn

Neue automatische Rundstrickmaschine zur Herstellung von Kleidungsstücke  
D.M. Vidal Riera, Barcelona/Spanien

Einige praktische Vorschläge zur Lösung der Klassierungs- und Organisationsprobleme in der Wirkerei/Strickerei  
R. Deasublieux, Frankreich

## **X. International Congress 31.8. – 4.9.1965 in Karl-Marx-Stadt(Chemnitz)/DDR**

Präsident/President: Obering. Günther Edelmann

Teilnehmer/participants: 450

### **Vorträge / papers:**

Antistatika und Gleitfähigkeit - Wichtige Kriterien bei der Verarbeitung synthetischer Faserstoffe

PANORAMA – ATLANTIC CITY. Bericht über die International Knitting Exhibition 1995  
E. Prusa, Wien/Österreich

Rationalisierung in der Trikotagenindustrie  
K. Richter, Limbach/Oberfrohna/DDR

Dimensionsstabilität der Maschenwaren  
K. Mazán, Budapest/Ungarn

Neuentwicklungen auf dem Gebiet der Kettenwirkerei  
K.P. Weber, Obertshausen/BRD

Elektrostatische Probleme in der Textilindustrie  
W. Löbel, Karl-Marx-Stadt, DDR

Nahtlose Damenstrümpfe – Sitz, Zugstellen – Empfindlichkeit und ökonomischer Materialverbrauch  
H. Dittrich, Karl-Marx-Stadt/DDR  
E. Schwarz, M. Hussong, Oberlahnstein/DDR

## **XI. International Congress 18. – 24.9.1966 in Budapest / Ungarn**

Präsident / President: Prof. Dr. Alajos Vékássy

### **Vorträge / papers:**

Weben-Wirken oder Stricken – Technische und ökonomische Betrachtungen zu Oberbekleidungsstoffen  
G. Heine, D. Kummer, Karl-Marx-Stadt/DDR

Les plus récents développements de la fibre polyproylène et d'autres fibres synthétiques en Italie dans la domaine de la bonneterie  
Aldo Fior, Milano/Italia

Technische Probleme der Verarbeitung von Falschdraht-Polyamidseiden  
P. Kertész, Budapest/Ungarn

Some technical properties of Double Jersey Cloth  
J.C.H. Hurd, Leicester/U.K.

Regelungstechnische Einrichtungen an Wirk- und Strickmaschinen  
K. Lázár, Budapest/Ungarn

Neue Entwicklungen in der Kettenwirkerei  
K.P. Weber, Obertshausen /BRD

Optimale Nähmaschinendrehzahl in Funktion der Nahtlänge  
A. Vékássy, Budapest/Ungarn

Thread Tension and its Influence on the density of Knitted Fabrics  
L. Pfeiffer, Warszawa/Poland

Neuester Stand der Veredelungsverfahren für gewirkte Stoffe – was ein Wirker davon wissen muß.  
A. Weber, Basel/Schweiz

## **XII. International Congress 25. - 28.9.1967 in Wattwil / Switzerland**

Präsident/President: Fritz Benz

Teilnehmer/participants: 313 aus/from 27 Ländern/countries

### **Vorträge / papers:**

The Role of the Knitter in the Production of Dimensionally Stable Knitted Wool Garments  
Ludwik R. Gan, Ambergate/U.K.

The Geometry and Dimensional Properties of Weft-Knitted Fabric  
Dr. James J. F. Knapton, Albany/USA

Circular knitted fabrics for outerwear  
Dr. Yaakow Stepkowsky, Ramat Elyahu/Israel

Lamination and Bonding of Knitted Fabrics  
Kurt Lanter, Horn/Switzerland

Needle Characteristics and their Influence on High Speed Knitting  
J.T.Speetjens, Torrington/USA

Functional relationship between the gauge of knitting machines and the denier of knitting yarn.  
Dipl.Ing. Peter Offermann, Dresden/DDR

The Knitting Industry and Cybernetics.  
Dipl.Ing. Milos Konopasek, CSSR

Neuerungen von Wirk- und Strickmaschinen auf der 5. Int. Textilmaschinen-Ausstellung in Basel  
E. Prusa, Wien/Österreich

Present Testing Problems on Knitwear  
Prof.Dr. A. Engeler, St. Gallen/Switzerland

Knitting of Spandex yarns - some Special Problems  
Prof.Dipl.-Ing. H.W. Krause, Zürich/Switzerland

### **XIII. International Congress 30.8. - 9.9.1968 in Herzliya / Israel**

Präsident/President: E.W. Wodak

Teilnehmer/participants: 200 aus/from 15 Ländern/countries

#### **Vorträge / papers::**

Warp Knitting Trends and Developments  
Entwicklung und Zukunftsaussichten in der Kettenwirkerei  
F. Furkert, Germany - R. Bauder, Germany  
H. Tawill, USA - N. Gottlieb, U.K. - Prof. Prusa, Wien/Austria

Latest Developments in Seamless Hosiery  
J.T. Millington, Leicester/U.K. - R. Peel, USA - E. Buhrer, USA

Developments in Bonding and Laminating  
J. Wyner, USA

Research in Knitting  
Dan Singer, USA  
Prof. Engeler, St. Gallen/Switzerland  
Dr. Levin, Israel  
Dipl.-Ing. W. Schäch, Reutlingen/BRD

Role of the Designer in Knitting Technology  
J. Carr Doughty, U.K.

Quality Control in Knitted Fabrics & Garments  
Glasmann, U.K.  
Boucraut, France  
D.N. Leplar, U.K.  
M. Pelzmann, Israel  
M. Tibon, Israel  
S. Horowitz, Israel

The Use of Computers in the Production of Knitted Apparel  
W. Bartley, USA

Structure and Efficiency of European Knitting Industry  
Genügen die Struktur und Leistungsfähigkeit der europäischen Maschenwaren-Industrie den zu erwartenden Anforderungen des Handels ?  
O. Bachmann, Switzerland

Knitwear Education and Training  
Unterricht und Ausbildung in Wirken und Stricken  
Prof. Prusa, Wien/Austria  
Dipl.-Ing. Bauder, Reutlingen/Germany  
F. Benz, Wattwil/Switzerland  
Prof. Hurd, Leicester/U.K.  
Prof. Dury, Roanne/France  
Prof. Palomer Pons, Barcelona/Spain  
Prof. A. Tremelloni, Milano/Italy

Fashionably Patterned Fully-Fashioned Wear  
Modische reguläre Maschenware  
R. Canzler, Ingolstadt/Germany

Stitch Bonding Arachne - a New Warp Knitting Technology  
Nähwirkverfahren ARACHNE - eine neue Technologie der Erzeugung von Wirkstoffen  
Dipl.-Ing. M. Konopasek and Z. Kochta, Czechoslovakia

Überlegungen zum Problem der Einstellung von Maschinen und der Massbeständigkeit von Waren  
E. Voisin, Troyes/Frankreich

Double - Knit Fabrics  
J. Rab, USA - B. Heller, USA  
L. Gan, U.K.  
Dipl.-Ing. W. Schäch, Reutlingen/Germany  
F. Strasser, U.K

Dimensional Stability of Circular Knitted Fabrics  
M. Balland, France

Knitted Outerwear from texturised Polyester Yarns and Spun Yarns Blended with Polyester  
Gestrickte Oberbekleidung aus texturierten Polyester-Fäden und Polyester Mischgarnen  
U. Schuster, Germany

#### **XIV. International Congress 17. - 24.8.1969 in Varna / Bulgarien**

Präsident/President: Prof. Dr. A. Kevorkjan

Teilnehmer/ participants: 330 aus/from 17 Ländern/countries

##### **Vorträge / papers:**

Dynamische Analyse der Fäden und Garne für Wirkwaren  
Prof.-Ing. A. Scaltritti, Italien

Elastomere in der Wirkerei und Strickerei  
Dipl.-Ing. W. Röhrig, Germany

Theorie der Maschenbildung  
Prof. Ing. I. Schalov, UDSSR

Analyse der Maschenform bei den einfanturigen Grundbindungen für Kettenwirkware  
Dr. K. Kopias, Ing. W. Zurec, Polen

Einfluß der Fadenreibungen auf die Berstfestigkeit der Wirkwaren  
Prof. Dr.-Ing. A. Vékássy, Ungarn

Komplexe Bewertung der Qualität von Wirkwarenerzeugnissen  
Prof.Dr.-Ing. A. Kevorkjan, Dozent Dipl.Ing. M. Tscheschmedjev, Bulgarien

Untersuchung der Einflußfaktoren auf Maßabweichungen von Flachgestricken  
Ing. H. Dittrich, Germany

Methode zur Bestimmung der Eigenmasse der einzelnen Größen von Wirkartikeln  
Dipl.-Ing. V. Minchev, Stefania Zavalova, Bulgarien

Einlegen von elastischen Garnen in Gewirke  
N. Sakata Japan

Technologie zur Herstellung von Oberbekleidung auf Cottonwirkmaschinen aus schrumpfenden  
Polyacrylnitrilfasern Melana  
Prof.-Ing. I. Teodorescu, Rumänien

Wesentliche Faktoren im technologischen Verhalten der Wollgarne und ihr Einfluß auf die  
Qualität der Strickerzeugnisse  
Prof.-Ing. A. Dodu, Rumänien

Die Zukunft der Wirkwaren aus Baumwolle  
R. Peel, New York/USA

Perspektiven zur Anwendung von Wirkstoffen, vor allem für Herren-Oberbekleidung, Bettwäsche,  
Heimtextilien und technische Stoffe  
Dipl.-Ing. K. Mazán, Ungarn



Gewirkte Herren-Oberbekleidung aus texturierten Garnen  
Dipl.-Ing. W. Weidenfeld, Israel

Wundverbandstoffe aus umstrickten Faservliesen  
Dr.med. H. Gromol, Ing. G. Heine, Dipl.Ing.ök. D. Kummer, Karl-Marx-Stadt/DDR

Ein Beitrag zur Problematik der Erzeugung von dreidimensionalen Strickartikeln  
Dipl.-Ing. L. Kliment, Brno/ČSSR

Neue Maschinen auf der Ausstellung in Atlantic City  
Prof. Dipl.-Ing. A. Tremelloni, Mailand/Italien

Fortschritte im Bau von Wirk- und Strickmaschinen für modische Massenproduktion  
Prof. Ing. E. Prusa, Wien/Austria

Klein- und Groß-Rundstrickmaschinen tschechischer Herkunft  
Dipl.-Ing. Fr. Machátček, ČSSR

Untersuchung und Vergleich der Jacquardmustersteuerungsvorrichtungen an Groß-Rundstrickmaschinen  
Dipl.-Ing. R. Bertold, Dipl.-Ing. L. Heeg, Dr.- Ing. P. Offermann, Karl-Marx-Stadt/DDR

Neue Möglichkeiten auf modernen Flachstrickautomaten  
Chr. Sigg, Schaffhausen/Schweiz

Einsatz der Elektronik bei den Wirkerei- und Strickerei-Maschinen  
Dipl.-Ing. Fieles-Kahl, Reutlingen/Germany

Arbeitsersparnis bei der Musterung von Kettengewirken  
Dipl.-Ing. O. Engelhard, USA

Die Entwicklung der Strumpfherstellung mit besonderer Berücksichtigung des automatischen Schließens der Strumpfspitze  
R. Peel, New York/USA

Neueste Entwicklungen auf dem Gebiet der Nahtlosstrumpf-Rundstrickmaschinen  
Dipl.-Ing. R. Canzler, Ingolstadt/Germany

Anwendung der Automatisierung in der Wirkerei- und Strickerei-Industrie  
L. Bryan, U.K.

Mode und Qualität in der Massenproduktion? Technische Zukunftsprobleme in der Maschenoberbekleidung  
H. Seghezzi, Nürtingen/Germany

## **XV. International Congress 30.8. - 4.9.1970 in London / U.K.**

Präsident/President: J.C.H. Hurd, FTI

Teilnehmer/participants: 323 aus/from 30 Ländern/countries

### **Vorträge / papers:**

Polyester Fibres in Weft Knitting  
Dr. N.B. Smith, London/U.K.

Knitwear in the Seventies  
Don W. Gay, Wilmington/USA

Stricken und Textilien im nächsten Jahrzehnt  
J.C. Wegerif, Leicester/U.K.

Aspects of Warp and Weft Knitted Fabric Production  
H.N. Aitken, U.K.

Bonded and Knitted Pile Fabric Progress  
George C. Elmes, G.D. Wilkinson, USA

Washability of Wool Knitwear  
Dr. J. R. McPhee, Ilkley/U.K.

Knitting Machinery Trends into the Seventies  
A panel of Speakers: Dr. E. Stoll, Germany, Karl Mayer, Germany, P.M. Findlay, U.K.

Produktionsaspekte der Strickwarenerzeugung  
H.R. Netzband, U.K.

## **XVI. International Congress 2. - 9.5.1971 in New York and Atlanta City / USA**

Präsident/President: Robert Peel

Teilnehmer/participants: 300 aus/from 20 Ländern/countries

### **Vorträge / papers:**

Prüfmethoden im Bereich der Maschenwaren  
Prof. A. Vékássy, Budapest/Ungarn

Die dynamische Entwicklung der Veredlung von Maschenwaren - heute und morgen –  
Dr. W. Möck, Heidelberg/Deutschland

Anwendung hochvoluminöser Copolyesterfasern in der Maschenwarenindustrie  
Dir. B. Piller, Bmo/ČSSR

Nahtlose Strümpfe und Strumpfhosen  
A.J. Buckreus, USA

Stützstrümpfe  
R. Peel, USA

Socken  
R. Merrit, USA

Bedeutung der Neuerungen in der Ketten- und Raschelwirkerei  
B. Wheatley, Leeds/U.K.

Rundstrickware für Herrenoberkleidung  
W. Bonitz, USA

Kettenwirkware für Herrenoberkleidung  
K.D. Darlington, U.K.

Färben und Ausrüsten von Maschenwaren für Herrenoberkleidung  
H. Pratt, Wilmington/USA

Garne, die für Rundstrick- und Kettenwirkware verwendet werden  
R. Roberts, USA

Anwendung von neuen Ideen bei Wirk- und Strickmaschinen sowie der Nadelauswahl  
J.B. Lancashire, Leicester/U.K.

Die Ausbildung von Mechanikern für Double-Knit-Maschinen  
Linwood Harris, USA

## **XVII. International Congress 24. - 27.9.1972 in Stuttgart / Germany**

Präsident/President: Dipl.-Ing. Rolf Canzler

Teilnehmer/participants: 381 aus/from 23 Ländern/countries

### **Vorträge / papers:**

Technical and economic Problems of the knitgoods manufacturer  
Dir. Dipl. Ing. P. Uhrmeister, Radolfzell/Germany

World Situation in the knitgoods sector  
C. Reichman, New York/USA for USA  
H. Amler, Ingolstadt/Germany for Europe and Asia

Pantyhose size Standards  
Dr. E. J. Delate, Wilmington/USA

Measuring instruments for the knitting industry  
D. Peat, Nottingham/U.K. - M. Mesny, France

New testing methods for textured yarns and their evaluation for the production of knitgoods  
Dr. P. Offermann, Dresden/DDR

Optimum number of Systems in circular knitting machines  
J. Rab, Israel - Dr. G. Bröckel, Switzerland

Knitting of high-bulk acrylic fibres  
W. Minčev, Sofia/Bulgaria

Knitted home textiles  
E. Bönisch, Hoechst/Germany

## **XVIII. International Congress 21. - 24.10.1973 in Milano / Italy**

Präsident/President: Prof. Attilio Tremelloni

Teilnehmer/participants: 140 aus/from 17 Ländern/countries

### **Vorträge / papers:**

Competitive Aspect of the U.K.-Knitting Industry in the European Economic Community  
R.P. Adler, Leicester/U.K.

The INSTAKNIT System for electronic patterning on jacquard-knitting  
F. Burki, Zürich/Switzerland

Electronical patterning - a new chance for knitting industry  
P. Dill, Stuttgart/Germany

Research on snagging of knitted fabrics of continuous and textured filament yarns  
Dipl.-Ing. A. Dodu, Bukarest/Rumänien

Computerised electronics in knitting  
J.C. Doughty, Leicester/U.K.

Applied researches as a key for the technological development in knitting industry  
G. Edelmann, Karl-Marx-Stadt/DDR  
Electronic needle selection computerised patterning control on pattern preparation  
P.M. Findlay, U.K.

Automation rationalisation of product cycles, better exploitation of the plants are the three conditions for the knitting industry market in continuous development  
M. Fochi, Iduna Olona/Italien

Development in double cylinder knitting machinery  
J.C.H. Hurd, Leicester/U.K.

Technical conditions for delivery of first choice knitted fabrics in EEC  
F. Maceraudi, Turin/Italien

Circular knitting machine of large diameter  
Dott.Ing. B. Manini, Firenze/Italia

Electronic Systems for technical rationalisation in knitting industry  
Dipl.- Kaufmann Rainer Mayer, Albstadt/Germany

Women outerwear on tricot and Raschel machines  
Ing.F. Nagl, Wuppertal/Germany

One-piece collants with elastic belt  
Dott. Ing. E. Negri, Firenze/Italia

Electronic patterning on flat V-knitting machines  
S. Tansini, Italien

Developments in warp-knitting machines and structures  
Dipl.- Ing. K. Weber, Obertshausen/Germany

New Yarn and Processes in the U.K.  
H. Catling, Manchester/U.K.

Considérations sur le paraffinage des filés  
G. Collausig, Pordenone/Italia

Moderne Verfahren in der Herstellung und Ausrüstung von Feinstrumpfhosen  
P. Kertész, Budapest/Ungarn

Quelques développements dans le domaine des fibres acrylics pour tricotage  
A. Malaguzzi, Milano/Italia

Verminderung der Restschumpfung von Kettenwirkwaren aus Kunstseide nach der Benetzung mit Wasser  
V. Minčev, Sofia/Bulgarien

Kontinuierliche Verfahren zum Bauschen von Synthesegarnen für die Maschenwarenindustrie  
B. Piller, Brno/ČSSR

The finishing and Cleaning of Knitwear in solvent  
W. Vogelsang, Augsburg/Germany

Analysis of equilibrium state of instabil interlacing structures developed from basic knitted structures under yarn loading  
Prof. Alois Vékássy, Budapest/Ungarn

Determination of the optimal methods and the structural parameters of knit fabrics in 100% acrylic yarn  
Dipl.-Ing. Alexander Spasov, Dipl.-Ing. Konstantin Wlachow, Sofia/Bulgarien

Verwendung von bikomponenten Acrylfasern bei Strickwaren  
Bicomponed continuous filaments in knitting  
C. Rottenbacher, F. Sardi, E. Tassinari, Milano/Italia

New series of flat-bed sewing machines  
A.S. Ronchi, Milano/Italien

The differential dyeing of knitted goods, present and medium-term prospects  
Aldo Pesaro, Milano/Italia

Problems in creating a range of double jersey fabrics  
M. Parker-Bright, U.K.

New development of acrylic fibres for knitwear

G.C. Sala, Italien

Damages occurring in seaming knitted fabrics  
M. Etai, Troyes/France

Die Thermofixierung von Maschenwaren aus Texturgarnen Marke Helanca  
O.T. Stutz, Wattwil/Schweiz

## **XIX. International Congress 8. - 11.9.1974 in Dornbirn / Austria**

Präsident/President: Dipl.Kaufmann Herbert Benger

Teilnehmer/participants: 220 aus/from 19 Ländern/countries

### **Vorträge / papers:**

Probleme der internationalen Rohmaterialversorgung in der Textilindustrie  
Dr. F. Droeven, Emmenbrücke/Switzerland

Mischgarne für Maschenware  
J. Rest, Leicester/U.K.

Fortschritte in der Herstellung rundgestrickter Warenlängen  
J.C.H. Hurd, Leicester/U.K.

Perspektiven der Anwendung der Elektronik in der Kettenwirkerei  
Dipl.Ing. P. Páč, ČSSR

Die Maschenindustrie in Indien  
J.G. Parikh, Bombay/Indien

Ein neues Verfahren zur Festlegung von Größenstandards bei Strumpfhosen  
Dr. E.J. Delate, Wilmington/USA

Single Jersey von Rundstrick- und Rundwirkmaschinen  
CH. Sigg, Schaffhausen/Switzerland

Quo vadis, Rundstrickmaschine ? - Die Rundstrickmaschine zwischen Spezialisierung und Vielseitigkeit  
Dipl.- Kaufmann Rainer Mayer, Albstadt/Germany

Neue Erkenntnisse auf dem Gebiet der Bekleidungshygiene  
Ing. E. Kunsch, Limbach-Oberfrohna/DDR

Das CAPLAN-System für Rohmaterial-Bewirtschaftung und Produktionsplanung  
K.R. Lensch, Genf/Schweiz

Der Einfluß des Paraffinierens auf Produktion und Qualität von Maschenwaren  
L. Neuhaus, Mönchengladbach/Deutschland

Die Bundeslehr- und Versuchsanstalt für Textilindustrie  
E. Tschallener, Dornbirn/Österreich

## **XX. International Congress 30.6. - 4.7. 1975 in Brno / Czechoslovakia**

Präsident/President: Pavel Šimko

Vizepräsident/Vicepresident: Ing. Bohumil Piller, CSc.

Teilnehmer/participants: 492 aus/from 21 Ländern/countries

### **Vorträge / papers:**

Knitting Techniques - Advance without Stagnation

G. Edelman, Karl-Marx-Stadt/DDR

Development in Single Jersey Machinery and Fabrics with Special Reference to Present and Future Use

J.C.H. Hurd, Leicester/U.K.

New Developments in Knitting Equipment at the 52nd Knitting Arts Exhibition

Ch. Reichmann, New York/USA

Present State and Further development of Small Diameter Knitting Machines and the New Duonit Technology and Technique

F. Čížek, Ing. V. Bezemek, Třebíč/ČSSR

Present State and Future Developments of Circular Links-Links Knitting Machines

Prof. J.P. Pons, Barcelona/Spanien

A New Method of Making Garment Lengths on Circular Knitting Machines

Ing. A. Brega, Milano/Italien

Present State and Future Development of Flat Knitting Machines

Ing. H.G. Kühnert, Westhausen/Germany

Development of Large Diameter Knitting Machines with Special Reference to Electronic Control

Ing.V. Buráň, Brno/ČSSR

Some Aspects of Knitted Fabrics Dimensional Stability and Evaluation Methods of the Latter

Prof. A.J. Kobliakov, UdSSR

Contribution of the Centre de Recherches de la Bonneterie to the Evaluation of the Quality of Knitted Fabrics and Knitwear

E. Voisin, Troyes/France

Application of Open-End Yarns in the Knitting Industry

R. Voleský, Ing. V. Kramoliš, ČSSR

Developments and Perspectives of Printing Knitted Fabrics with Special Reference to Transfer Print

Ing. grad. G. Kögel, Basel/Schweiz

Application of Open-end Yarns in the knitting industry

T. Konishi, Osaka/Japan

Strickgewebte Textilien, Verfahren zu ihrer Herstellung und ihrer Eigenschaften

L. S. Smirnov, Ukraine

The recommendations of the Association of Hosiery Manufacturers Size, Support and Stretch Hosiery Technical Committee

R.C. Huber, Winston-Salem/USA

## **XXI. International Congress 12.9. - 15.9.1976 in Karl-Marx-Stadt / DDR**

Präsident/President: Obering. Günther Edelman

Teilnehmer/participants: 550 aus/from 21 Ländern/countries

### **Vorträge / papers:**

Growing Consumer Demands and the Role of the Knitting Industry in the Present and Future  
Dipl.ök. W. Schirmer, DDR

Improvements by using Textured Yarns with a modified Structure  
Dr. H. Kobler, Switzerland

New Field of Application of a known Finishing Method in the Knitting Industry  
Ing. W. Dominikowski, Ing. K. Lesiakowska, Polen

New Developments in the Pantyhose Production  
Dr.-Ing. E. Negri, Italy

Has the Knitting Technology reached its Performance and Use Limits  
Dipl.- Ing. E. Beschnitt, DDR

Present State and Development Trends in the Warp Knitting Technology  
Ing.grad. Ch.Wilkens, BRD

On some Aspects of the Present State and Further Development of the Stitch Bonding Technology MALIMO  
Dipl.-Ing. H. Zschunke, DDR

Electronic Patterning on Wildman Jacquard-Sliver Knitting Machinery  
P. Christiansen, USA

Some aspects of the relationship between man-made fibre research and new knit wear products  
D. Dohrn, D. Dawczynski, Germany

The influence of fashion on the knitting industry – seen by the machine builder, the designer and the yarn producer  
J. C. H. Hurd, J. Willock, A. E. Simons, U.K.

Technological and Economic Aspects in the Production of Knitted Fabrics for Industrial Uses  
Prof. Dr. Sc. L.S.Smirnov, UDSSR

Rationalization of the Knitting Process on Large Diameter Circular Knitting Machines  
Dipl.Ing. F.Malasek, CSSR

The Specialization of the Sewing Operations in the Knitting Industry  
P.I.L. Rebecchi, Italy

## **XXII. International Congress 2.10. - 5.10 1977 in Borås / Sweden**

Präsident/President: Dr. Bengt Edberg

Teilnehmer/participants: 220 aus/from 21 Ländern/countries

### **Vorträge / papers:**

Engineering analysis of Modern Knitting Systems  
Dr. J. Knapton, USA

High production of Home Textiles by Warp- Stitch Bond- and Knit Technology  
Dr.-Ing. Lenhardt, DDR

Deep Sliver Pile, Actual review  
Dir. Nils Modig, Sweden

Weft Insertion Applications and other New Fabric Developments  
K. Niederer, USA

The Presser-Foot - A New Concept for Producing Shaped Panels or Garments on V-bed Knitting Machines.  
Ing. B.R.Jeanneret, Switzerland, Dir. Dobbelaere, Belgium, F. Robinson, U.K.

NC-Controlled Flat Knitting Machines  
H. Schlotterer, BRD

Computer Assisted Technical Design and Control in Knit Fabric Production  
Dir. K.D.Wustrow and Dir. M.Konopasek, USA

Noise in Knitting Mills  
Prof. K.Slater, Canada

METAP Knit-Weaving Technique  
P. Simko, CSSR

Knitted Terry Loop Constructions - New Directions  
V.J. Lombardi, USA

Increased Industrial Use of Pan-Fibres for Production of Knitgoods by the Development of Pan-fil Yarns  
Dr. L.Kocsy, Dr. V.Havas, M.Karagics, Hungary

Atlantic City Exhibition 1977 and the Future  
Ch. Reichmann, USA

Yarn friction on knitting machines  
Dr. P. Offermann, DDR

Production of flame-resistant knitwear for babies  
L. Szuchy, Hungary

Transfer printing on cotton-fabrics  
E. Leimbacher, Switzerland

Minimization of air pollution in the thermo fixation process  
L. Ander, Sweden

Yarn inspection on warp knitting machines  
J. Giesenhagen, Germany

LS-Easy Thread – a new method for warp input on warp knitting machines  
S. Ludvigson, Sweden

LSB Jet Air Dying method  
S. Ludvigson, Sweden

Lycra elasthane fibre in todays circular knit fabrics  
P.R. Adcock, U.K.



## **XXIII. International Congress 24.9. - 27.9.1978 in Troyes / France**

Präsident/President: Antoine Verley

Teilnehmer/participants: 253 aus/from 21 Ländern/countries

### **Vorträge / papers:**

Success in market due to creativity  
Dr.G. Meier, Switzerland

Quality Engineering in knitwear Production  
L.R. Gan, U.K.

Some examples of animation of the woolen fabric market  
T. Belleli, France

Quality seen through the behaviour of knitting goods  
R. Bilinski, France

The processing of polyamide Stretch yarns on warp knitting machines  
K. Lazar, V. Havas, Hungary

Application of new kinds of textured yarns in the knitting industry  
Dr.-Ing. B. Piller, CSSR

The knitting machine: where do we go from here?  
J.C.H. Hurd, J. Millington, U.K.

Evolution and adaption of electronics to circular knitting machines  
M. Jolly, France

Conventional knitting technics, non conventional variants, new products  
G. Edelmann, E. Kopp, P. Offermann, Germany

New developments of circular knitting machines, economical importance specially in underwear field  
W. Schmid, Germany

Some effects of package dyeing, drying and winding on the knittability of wool double jersey fabric  
N. Saville, U.K.

Circular knitting machines: Is it worthwhile increasing either the number of knitting systems or the speed in order to improve their output?  
J. Bel, France

SANFOR and SANFOR-KNIT-FABRIC Systems for the control of the knitted good shrinkage N.H. Burdett, U.K.

Continuous processing of tubular knitted good  
R. Delerue, France

Knitted Fabric Quality  
J.C. Gianfalla, France

General thoughts about the congress  
M. Voisin, France

Circular Knitting machines and electronic  
M. Balland, France

## **XXIV. International Congress 14. - 17. 10.1979 in Budapest / Ungarn**

Präsident/President: Dr. Alajos Vékássy

Teilnehmer/participants: 397 aus/from 22 Ländern/countries

### **Vorträge / papers:**

Automatization program of the I.T.F. Maille  
E. Voisin, France

Affect of yarn structure on the knittability and on some fabric properties in warp knitting  
V. Havas and V.A. Petrova, Hungary

Application of new yarn structures in the knitting industry  
Zs. Czagányi and Fr. Karagits, Hungary

Role of spun-like filament polyester yarns in US knitting industry  
Ch. Reichmann, USA

Electronical pattern processing in printing of knitted fabrics  
D. Jöhnk, Germany

Some technical comments on the production of "Superwash" Knitwear in pure wool  
Julian Anthonio, Belgium

Mercerizing of yarns and knitted fabrics, advantages and disadvantages and their practical utilization  
Bernd-Dieter Bähr, Germany

Small liquor-ratio dyeing in connection with mercerizing of knitted fabrics  
L. von Ondarza, Austria

Warp knitted pile fabrics  
Chris Wilkens, Germany

A new knitting technology on basis of loops made of textured yarns and its features  
Z. Mrożewski, Poland

An unbroken fashion trend of knitted outerwear. Technology of knitwear production, classification and comparison  
S. Tansini and A. Borgini, Italy

A comparison of the production of half-hose, socks etc. on single cylinder, double cylinder and cylinder and dial machines including the various structures and design possibilities involves  
C. H. Hurd and G. Wood, U.K.

Methods for judgement of use-properties of knitwear  
P. Pac, K. Svehla, V. Zid and Z. Dusek, CSSR

Knitting tension as a function of machine design, loop length and yarn parameters  
R.E. Merrit, USA

The possibility of quality engineering of cotton knitted fabrics  
G. Aschner, Hungary, Dr. L. Kóczy, Hungary and A.A. Salman, Egypt

Factors affecting the fluctuation of specific mass and width of circular knitted fabrics  
P. Offermann, Germany

Verarbeitung von Lycra auf Wirkmaschinen  
Flickenscher, Bauder, Germany

## **XXV. International Congress 5. - 8.10 1980 in Herzliya / Israel**

Präsident/President: Dr. Alec Lerner

Teilnehmer/participants: 223 aus/from 14 Ländern/countries

### **Vorträge / papers:**

Design Aspects of Knitted Garments from Raw Materials to the Finished Merchandise  
Dr. Mario Traverso, Italy

Knitted Garments on View of the Energy crisis  
Prof. Gad Alon, Israel

Knitting & Fashion  
J.Y. Heeringa, Holland

Complex Quality Control System & Methods of Product Quality Quantification  
Dr.W. Luczynski, Poland

Methodology of Research for a market segment in the apparel industry  
Dr. J. Gargir, Israel

Flexibility & Reliability in the Knitting Mill of the 80's  
C. Troll, Switzerland

Investment in Presser Foot Knitting - the Financial Implications  
M. Rockberger, U.K.

Synthetic Fibres for the eighties  
F.R. Lufkin, Switzerland

Possibilities for Further Development of Polyester Filament Yarns  
Dr. K. Albien, Germany

Optimum Boucle Effect in a Fabric Produced from Knit de Knit Yarns  
A. Naik and F. Lopez-Amo, Spain

Some aspects of cotton yarn knitability  
Dr. I. Kaplan, Israel

The state of knitting technology and industry in the USA  
C. Reichman, USA

Warp Knitting in the Eighties  
Dr. B. Wheatley, U.K.

The Warp Tension and its Effect on the Knitting Mechanism  
Dr. S. Raz, Israel

The Geometry & Dimensional Characteristics of All-Wool Raschel Knitted Fabrics  
Dr.I.K. Jacobsen, Norway

Some Problems of Structure and Technology of a New Class of Course-Wale/ Weft-Warp/ Knitted Fabrics  
W. Korlinski, Poland

Warp Knit design and computers  
M. Konopasek, USA

Knitting Modes in Multisystem Electronic Flat Knitting Machines of the Future  
Obering. G. Kühnert, Germany

Novle applications for single knit fabrics  
J. Simpson, U.K.

The Effect of Yarn Properties & Yarn Feeding Method on the Stitch-Forming Forces  
Dr.I. Pietikäinen, Finland

Knitting Machine Design & New Technologies  
T.J. Lake, U.K.

New trends in elastic knitted fabrics  
A. Reicher, Switzerland

Single Jersey in all variations: the form of stitches in the Eighties  
W. Schmid, Germany

The situation of single/double jersey from the viewpoint of Terrot  
S. Diete, Germany

Novel usage of compound needles in circular Multiwaga machine  
J. Zaar, Switzerland

Modern methods of tight manufacture  
K. Wright, Italy

The continuous treatment of tubular knitted fabric  
J. Rappaport, France

High pile sliver knitting during the eighties  
N. Modig, Sweden

Knitted fabric distortion and relaxation in the dyeing and finishing process  
I. Horovitz, Israel

## **XXVI. International Congress 5. - 7.10. 1981 in Lodz / Poland**

Präsident/President: Dr. Witold Lucziński

Teilnehmer/participants: 172 aus/from 16 Ländern/countries

### **Vorträge / papers:**

Knitwear with participation of low grade fibres  
S. Slawov, Bulgaria

Use of natural fibres for improvement of comfort and aesthetic properties of knitted goods  
C. Olechnowicz, H. Kaczmarska, A. Laskowska, Poland

Effect of properties of bulk PES yarns on processing and on knitwear characteristics  
V. Havas, K. Nemeth-Erdödy, G. Halasz, Hungary

Evaluation of hairiness of 100% worsted wool yarn  
T. Manduk-Chuchla, Poland

The knitting machine and fashion. The influence of fashion on the design of the various types of weft knitting machinery  
S.F. Luketa, U.K.

Different factors influencing decrease of circular knitting machines output  
Faktoren, die zur Leistungsminderung bei Rundstrickmaschinen führen  
J. Bel, France

Knitting of plush fabrics on machine type ISPL-R  
S.C. Soler, Spanien

Lirapol pile knitting machine and Liroflor carpet knitting machine. New techniques for producing terry cloth or carpets  
J. Barth, Germany

Optimization of tracks of loop forming elements on warp knitting machines  
K. Kopias, Poland

The dimensional and mechanical properties of plain weft-knitting  
R.B. Hepworth, U.K.

Some properties of knitted fur pile fabrics  
Z. Slawinski, Poland

Instrumental judgement of the wear properties of knitted fabrics by bursting fatigue  
A. Vékássy, Hungary

Mathematical and physical description of indetermined shrinkage in knitted fabrics  
W. Korlinski, Poland

Treatment of tubular knitted fabrics made of pure synthetic fibres or blended with synthetic fibres I. Rappaport,  
France

Simple automatized equipment from I.T.F. Maille and Sodemat  
J.C. Gianfalla, France

New patterns of knitted fabrics obtained as a result of application of finishing processes  
M. Gricuk, A. Markowska, M. Sowinska, B. Swiderski, Poland

Apparatus for industrial control  
R. Bilinski, France

Microelectronics in the knitting industry on the example of the detection of faults in knitted fabrics P. Svoboda,  
CSSR

A control device detecting damaged needle latches  
Cz. Stachowiak, Poland

### **XXVII. International Congress 3. - 6.10 1982 in Zürich / Switzerland**

Präsident/President: Fritz Benz

Teilnehmer/participants: 239 aus/from 23 Ländern/countries

#### **Vorträge/ papers:**

Future economic and social prospects  
Prof.Dr.T. Leuenberger, Switzerland

Yarns and Material Preparation  
Dr.H. Kohler, Switzerland

Optimal Parameters for the Production of knitgoods from wool and blend yarns  
Authors collective, Poland

New polyester filament yarns for Knitgoods  
A. Murer, Switzerland

Yarn splicing for knitting and hosiery  
Dipl.-Ing.G. Gebald, Germany

Knitting and Hosiery Machinery  
W. Schaub, Switzerland  
The presser-foot concept - new link between knitting and making up  
Ing.B. Jeanneret, Switzerland

The easy way to fully fashioned knitting  
Dir.B. Neri, Switzerland

Market conform production of knit goods on circular flat bar machines  
Dr-Ing.H. Müller, Germany

Co-operation between the knitting machine builder and the knitting industry  
J.T. Millington, U.K.

Co-operation with the machine builder - does it exist ?  
W. Schmid, Germany

Production of high pile fabrics  
C. Troll, Switzerland

Electronics in warp knitting  
Ch. Wilkens, Germany

Subject "Knitgoods"  
J. Kaufmann

Raw material - Technology - Product development  
Dipl.Ing.K. Lázár, Hungary

Techniques for developing surface interest in circular knits  
V. Lombardi, USA

Knitted tricot fabrics of Nylon/Lycra for swimwear  
J.X. Koch, Switzerland

Influences on elasticity in fine tights  
Dipl.-Ing.E. Szurovecz, Dipl.-Ing.S. Czaganyi, Dr.A.Vekassy, Hungary

Knitted textiles for medical and sanitary purposes  
Dr.Ing.B. Piller, CSSR

Modern finishing technology for highquality knitgoods  
Text.Ing.F. Furkert, Germany

Shrinkage of knitgoods  
Text.Ing.P. Oesterreicher, Austria

Quality assurance in the knitting industry  
L.R. Gan, U.K.

Testing knitgoods for dimensional stability  
Dr.W. Krucker, Switzerland

New testing methods for the fit of knitgoods  
Dr.-Ing.M. Cednäs, Ing.B. Johansson, Sweden

Uni-cut - against the stream? A new approach in cutting technique  
E. Weber, Switzerland

Multiple machine attendance in flat and circular knitting  
Dipl.Ing.R. Primus, Germany

Mill Control in the Age of Micro-Electronics  
Dipl.-Ing.F.W. Klingsöhr, Switzerland

Profit contribution accounting as practised in the knitting industry  
Dr.H. Keller, Switzerland

## **XXVIII. International Congress 2. – 6.10.1983 in Leicester / U.K.**

Präsident/President: J.C.H. Hurd † 1983, John T. Millington

Teilnehmer/participants: 98 aus/from 15 Ländern/countries

### **Vorträge / papers:**

The Implementation of Quality Assurance in the Knitting Industry with Special reference to education and training for Quality  
L. R. Gan, U.K.

The Uses of Microcomputers in Research in the Textile Industry  
Dr. B. Schofield, U.K.

The uses of Computer Pattern Recognition in Fabric Fault Detection  
D. J. Spencer, U.K.

Die Wirkerei- und Strickerei-Industrie der Schweiz  
Fritz Benz, Schweiz

The dimensional properties of cotton single jersey piqué  
M.D. de Araujo, M.M.M.T. Neves, J.A.G. da Silva, Portugal

Yarn design – what implications it has for the knitter  
M. S. Burnip, J. Castle-Mallory, U.K.

The dispersion of the stocking through Europe  
S.D. Chapman, U.K.

A method for automated product planning  
V. Havas, G. Halasz, E. Szurovecz, Hungary

Computer predictions for knitted cotton fabric shrinkage  
Alan Heap, U.K.

The effects of blending on the dimensions of plain weft knitted fabrics  
R. B. Hepworth, U.K.

New areas of east-west collaboration in the production and marketing of knit goods  
R. C. Jain, India

Data Bank: A company performance "Health Check"  
B. Johnson-Hill, U.K.

The automation of making-up in the knitting industry  
L'automatisation en confection dans les industries de la maille  
M. Mesny, France

The scope of intarsia patterning on V-bed flat machines  
N, Modig, Sweden

Automation and robotics in the making-up of knitted garments  
Antonio Moscaroli, Italy

Biomaterials – The result of co-operation between engineers and physicians  
Biomaterialien – Ergebnisse der Zusammenarbeit zwischen Ingenieuren und Ärzten  
Cz. Okrojek, A. Nawrocki, B. Swiderski, Poland

New trends in the application of polyester yarns in the Polish knitting industry  
Neue Tendenzen im Bereich der Anwendung von Polyestergarnen in der polnischen Trikotagenindustrie  
C. Olechnowicz, H. Kaczmarska, Z. Majcherek, Poland

The history and romance of warp knit trades  
Aaron Reinfeld, USA

New design approaches to presser foot knitting  
F. Robinson, Z. Roworth, G. Graven, U.K.

Future technical and technological needs of the knitting industry  
W. Schaub, Switzerland

Historical development of the technique and technology of pantyhose production  
Historische Entwicklung der Technik und Technologie der Erzeugung von Strickstrümpfen  
V. Smejkal, Czechoslovakia

Fabrics for new and uses and their application for double jersey machines  
Maschenstoffe für neue Anwendungsgebiete und ihre Herstellung auf doppelfonturigen Rundstrickmaschinen  
Tricots destinés a des nouveau domaines d'application et leur production sur machines circulaires a double fontures  
F. J. Strasser, U.K. - V. Karmos, K. Lázár, Hungary

### **XXIX. International Congress 22.1. - 25.1.1985 in New-Delhi / India**

(This congress was planned end of 1984. Because of political reasons it was postponed in 1985)

Präsident/President: S.M.Banerjee

Teilnehmer/participants: 400

#### **Vorträge / papers:**

Future Trends in Knitting Industry  
Rikhab Chand Jain, India

Socks/Comfort Orion Acrylic Fiber  
R.D. Euler, USA

Emerging Trends on Acrylic Knitting in India  
H.C. Bhatia, India

Impact of synthetic fibres on Indian Hosiery Industry  
C. Sivaraman, Raju Chandran, India

An approach to the study of knittability of spun yarns  
S. Gosh, V.K. Kothari, P.K. Banerjee, India

Achieving yarn quality targets in the changing Textile scene. A system's approach  
A.K. Gupta, India

Investigating the effect of gamma rays on the intensity of pilling in polymers on acrylnitrile base used in the Knitting Industry  
Prof.G. Damyanov, Bulgaria

Structural mechanical und physical properties of wool weft and warp knitted fabrics  
R.C. Dhingra, R. Postle, Australia

Machine washable wool-knitwear  
P.P. Chandrana, K.H.Kumar, India

Future development tendencies of flat und circular knitting machines  
F. Benz, Switzerland  
Improvement of the rentability und reproductibility under continuous work  
J. Rappaport, France

New preparation and finishing technologies for fabric  
Bortalami, Italy

Recent Developments in Knitgoods Machinery especially relating to Cotton Knitgoods  
R. Oxley, U.K.



Knot free yarns in knitting  
R. Neumann, Germany

The Theory und Practice of splicing  
G. Gebald, R. Neumann, Germany

Present State and future scope of knitted fabrics for industry applications  
S. Anand, P.J. Lawton, M.S. Burnip, U.K.

Knitting Industry in India  
T.V. Ratnam, V.R. Sivakumar, India

Knitting in India  
J.G. Parikh, India

New technological trends in production of foot wear on small diameter knitting machines  
V. Smejkal, CSSR

Quality control and product audit of hand flat knitwear  
P.T. Banerjee, India

International Standards on Apparels  
S.T. Chakraborty, India

New aspects for testing the quality of fine panty hoses  
Alajos Vekassy, M.Szurovetz, Hungary

An appraisal of the degree und stability of flat set in weft knitted fabrics and need for future work V.  
Subramaniam, India

Speciality knitting machines - knitted accessories Service  
D.C. Bindal, India

Indian Standards on Hosiery  
R.I. Midha, India

Integrated Knitted with Hygenic Function for Extreme Environmental climate  
B. Piller, CSSR

Problems concerning the optimization of the knitting process  
K. Kowalski, Germany

Some guidelines for the manufacture of high quality cotton knitwear  
D. Venkatapathy, India

Diversification and Development of New Fabrics being an account of how the South India Textile Association was able to meet the knitting sector of South India's Industry  
M.S. Burnip, U.K., V.R.Sivakumar, India

Warp Insertion on circular knitting machines. New Designing tool  
V.J. Lombardi, USA

Status of Indian Hosiery Industry  
A.I.S. Rao, India

Some guidelines to the Production of high quality cotton knitgoods  
R. Ramamurthy, V.R. Sivakumar, India

New kinds of triple layed knit fabrics as carriers for the production of synthetic leather  
Ing.J. Grebowski, Germany

Export prospects of Knitted Goods  
G.N. Nagar, India

Present and the Future  
A.S. Groyer, India

New types of Human Implantable Knitted Medical Articles

A. Dodu, A.A. Dodu, Pop D. Popa, Romania

The Manufacturing of Synthetic yarn Knittings meant for backings used for leather substitutes

A. Dodu, G. Andreicovich, Romania

Bibliographical Researches regarding education and Literature for the knitting field

A. Dodu, A.A. Dodu, A.B. Dodu, Romania

### **XXX. Congress IFKT. 17. - 21.11.1985 in New York / USA**

Präsident/President: Victor J. Lombardi

Teilnehmer/participants: 152 aus/from 18 Ländern/countries

#### **Vorträge / papers:**

Design and Marketing

E. Potter, USA

Designing Computers for Flat Knitting Machinery

W. Schäch, Germany

Knitting Design Requirements for the Future

Z. Roworth, USA

A Glimpse of the Technology behind the Impact of Italian High Fashion Knitwear

N. Modig, Sweden

Regulating Devices for Yarn Take-Up

J.C. Gianfalla, Italy

Universal Computer Model for Weft Knitted Fabric Engineering

M. de Araujo, Portugal

Report on Romanian Knitting Equipment

A Dodu, Romania

Electronics in Warp Knitting

B. Wheatley, U.K.

Hosiery Developments: An Updated Look

D. Brier, USA

New Needle Designs for Knitting

K. Brenner, USA

Cotton Dust Elimination in Weft Knitting

B. Edberg, Sweden

Education in the Knitting Sector: An Analysis

Dr. H. Estakhrian, USA

New Techniques and Methods in Pattern Preparation for Flat Knitting Machinery

Dr. H. Müller, Germany

Use of 100 Per Cent Wool/Linen Blends

H. Kaczmarska, C.Olechnowicz, Poland

Small Diameter Knitting Machines from Czechoslovakia

J. Docecal, CSSR

Model Transnit TR 2 der Firma Dubied

N. Blackwell, USA

Increasing the output of knitting machines by changing the fabric structure  
V. Havas, G. Halász, E. Szurovecz, Hungary

Use of 100% Wool Yarns and Linen/Synthetic Fibre Blends in Knitting Industry  
C. Olechnowicz, H. Kaczmarska, Poland

Warp Knitting Equipment  
W. Diehl, USA

Warp Knitting Equipment. Current and Future Directions  
D. Heydt, USA

Achieving Maximum Knitting Mill Efficiency by Optimizing the Lubrication and Lint Control Process and by Improving Production Monitoring Techniques  
M. Broitman, USA

Circular Yard Goods Machinery. Current and Future Directions  
W. Gorny, USA

Vanguard Knitting Machinery  
Irving Bienstock, USA

Dubied Knitting Machinery  
S. de Salis, Switzerland

Camber Machinery  
R. Stanley, USA

Universal Machinery  
S. Ritter, USA

Jumberca Today  
D. Earl, USA

Sweater Strip Equipment  
D. Griffin, USA

Steiger Machinery  
Alexander Jurenak, Switzerland

Stoll Machinery  
A. Smilovici

Cotton Machinery  
A. Clayton, U.K.

Protti Machinery  
C. Schaffer, USA

## **XXXI. Congress IFKT. 25. - 29.5.1987 in Sofia / Bulgaria**

Präsident/President: Bontcho Sarafov

Teilnehmer/participants: 141 aus/from 16 Ländern/countries

### **Vorträge / papers:**

Erkenntnisse zur Perspektive der Nähwirktechnik MALIMO  
Prof. Dr. P. Offermann, Germany

Rechnergestütztes Konstruieren von Maschenstoffen  
Dipl.Ing. K.Lazar, Ungarn

Ein Beitrag zu Entwicklungsrichtungen im Einsatz der Elektronik auf Strickmaschinen  
Dipl.-Ing.V. Smejkal, Dr.Ing.P. Svoboda, CSSR

The Electronic Control in the Flat Knitting Industry  
A. Szanto, Hungary

Elektronisch gesteuerte Flachkullierwirkmaschine Modell NCI für Strick-Oberbekleidung  
Scheller, Germany

Moderne Flachstrickautomaten - ihre Leistung in Produktion und Musterung  
G. Kühnert, Germany

Die Anwendung der Korrelations- und Rangkorrelationsrechnung in der Strumpfindustrie  
Dr.A. Vekasey, Z. Czaganyi, Hungary

The Nature of Absenteeism in the Knitting Industry in Israel  
Dr.J. Gargir, Israel

Verbesserung des physiologisch-hygienischen Verhaltens der Strick und Wirkwaren für Oberbekleidung mit einem Synthese-Faseranteil  
Dipl.-Ing.K. Wlahov, Dipl.-Ing.Al. Spassov, Dipl.-Ing.S. Kirev, Romania

Einfluß der struktur-technologischen Parameter auf die Gebrauchseigenschaften der gewirkten Fußbodenbeläge  
Dipl.-Ing.P. Mizowa, Dipl.-Ing.P. Zwetkova, Dipl.-Ing.S.Kirev, Romania

Edle Naturtextilrohstoffe für Trikotagen  
D. Botev, A. Spassov, I. Lukarski, Romania

Die intensivierte Technologie des Maschinendrucks auf Polyacrylnitril-Strickstoffmischungen  
Dr.-Ing.P. Wangelov, Prof.Dr.R. Detscheva, Rumänien

Einfluß der Fadenzugkraft und Fadenschwankung in der Maschenbildungszone auf die Warenstreifigkeit  
Dr.-Ing.I. Stupiza, Dipl.Ing.W. Gligoriewitsch, Jugoslawien

Die Methoden der Oligomerenbeseitigung bei den Besatzprozessen  
L.Stassjak, Polen

Die Struktureffekte in den Kullierstoffwaren, die als Pressartikel hergestellt sind  
M. Bontschinska, Polen

Eigenschaften und Technologie der Kettenwirkwaren mit einzelnen Maschen  
W. Korlinski, M. Perima, Polen

Anwendung der Berechnungsmaschinen für die Steuerung der Textilmaschinen  
Dipl.-Ing.O. Kasche, CSSR

Verfahren für direkte Ausarbeitung der Fäden mit hoher Flaumigkeit  
S. Slawov, Dipl.-Ing.A. Baschev, Russland

Einige Besonderheiten bei der Produktion von Trikotagen aus kombinierten Prenomit-Garnen  
Dr.-Ing.I. Popowa, Ing.G. Mitov, Dipl.-Ing.P. Konaktschiev, Dr.-Ing.K. Boev, Rumänien

Gerät zur Bestimmung der spezifischen Bauschigkeit von Kräuselgarnen  
A. Petrov, Bulgaria

Spezifische Eigenschaften der Strickwaren mit hochelastischen Fäden  
Ing.M. Drenska, Prof.G. Damjanov, Bulgaria

Effektgarne "Predima M" und ihre Anwendung in der gewirkten Oberbekleidung  
Dipl.-Ing.K. Rajtschev, Dipl.-Ing.W. Metschkarov, Bulgaria

Qualitätsverbesserung und Kostensenkung in der diskontinuierlichen Stückfärberei  
W. Rieder, Switzerland

Steiger Electra – Programm  
A. Jurenak, Switzerland

Wrap Technology - Current Status/Future Challenges  
V.J. Lombardi, USA

## **XXXII. Congress IFKT. 9. - 12.4.1989 in Budapest / Hungary**

Präsident/President: Dr. Alajos Vékássy

Teilnehmer: 169 aus/from 14 Ländern/countries

### **Vorträge / papers:**

The present Situation and tasks concerning quality in the Hungarian knitting industry  
V. Havas, Hungary

The benefits of using synthetic filament yarns made by modern processes in warp  
G.A. Horsfall, U.K.

A method of reducing and evaluating angora fiber shedding in knitted fabrics  
A. Weinberg, Israel

Analysis of the processing of type yarns in the knitting industry  
M. Büki, M.Nagy, Hungary

Measurement of the yarn-feeding on flat-bed knitting machines  
J. Dhont, Belgien

Application of microprocessor-controlled step-motors for the positive feeding of elastomere yarns  
F. Conzelmann, Germany

Where is the future of products manufactured on flat knitting machines ?  
A. Jurenak, Switzerland

A microcomputer based analysing system for the measurement and evaluation of the dynamic yarn pulling forces prevailing in the knitting zone of circular knitting machines  
K. Kowalski, Poland

New principles for the quality control of the knitting process on large diameter circular knitting machines  
P. Offermann, Germany

Modern developments in knitting technology  
D. Spencer, U.K.

The most up-to-date computer aided flat-bed knitting machines for the production of fashionable knitted fabrics  
H. Rieche, Germany  
Variatex 2500: A global answer to today's knitters requirements in terms of productivity, textile possibilities and quickness in changing  
A. Brego, Italien

Increasing the efficiency of circular knitting  
H.J. Clauss, Germany

Modern and rational manufacturing methods in the make-up of knitted fabrics  
U. Rabe, Germany

Further theoretical and practical prerequisites for satisfactory sewing Performance of knitting fabrics based on L and M sewability tester application  
M. Subotsky, Y. Armon, Israel

Introduction of pleated tendencies in the production of ready-made knitwear  
E. Nikolova, Bulgaria

The small-diameter circular knitting machines of the Czechoslovakian Company Elitex  
J. Matejcek, CSSR

New trends in the production of fine pantyhoses  
V. Nemeth, Hungary

Measuring fabric tension in socks while testing for size  
R. Merritt, USA

Testing of the durability of fine pantyhoses  
Zs. Czaganyi, Hungary

Specialization in the manufacturing of Crochet Narrow Fabrics, such as Laces, Bands and Trimmings with Crochet knitting machines. Present and future economical-technical features M. Azimonti, Italy

Application of the VSI picture-processing system of the Fa. Sick in the textile industry  
W. Decker, E. Sick, Germany

Electronic data-processing in the knitting industry-chance to meet the demands of today's market successfully  
F.W. Klingsöhr, Germany

Circular knitted articles for sport and freetime  
A. Spassov, Bulgaria

Structure, properties and quality of knitted fabrics  
D. Prockova, CSSR

Heat resistance of knitted fabrics  
S. Shaltiel, Y. Shashani, Israel

The dimensional properties of 1/1 rib fabrics  
R.B. Hepworth, U.K.

Geometrical tool for estimation of loop length on circular Single Jersey machines  
P.K. Banerjee, India

New concepts in technical fabrics engineering  
S. Raz, Israel

### **XXXIII. Congress 13. - 16.10.1990 in Reutlingen / Germany**

Präsident/President: Franz Furkert

Teilnehmer/participants: 146 aus/from 16 Ländern/countries

#### **Vorträge / papers:**

Product benefits offered by knitted fabric worn next to the skin. Some clothing physiological results of new developments using PET and PA 66 filament yarns  
Hanspeter Marschner, Rhone-Poulenc Viscosuisse, Switzerland

Single Jersey Innovation  
Walter Schmid, Mayer & Cie., Albstadt, Germany

Integrated Yarn Feed - a contribution to quality assurance  
Fritz Conzelmann, IROPA PRODUCT-CONSULTING GmbH, Albstadt 2, Germany

Panel discussion on "Technical Textiles"  
Direktor Hans Martin Lehner Karl Mayer Textilmaschinenfabrik, Obertshausen, Germany  
Dipl.-Ing.(FH) Ralf Kiener, Glaswerk Schuller GmbH, Wertheim, Germany  
Prof.Dr.sc.techn. Peter Offermann, Technische Universität Dresden, Dresden, Germany

Profitable making-up of tights by integration of combined robot sewing installations  
Prof.Dr. Alois Vekassy, IFKT-Section Hungary, Budapest

New Developments in warp knitting  
Dipl.-Ing. Chris Wilkens, Heusenstamm, Germany

Application of flexible machine versions for rational production of knitted articles  
Dipl.-Ing. (FH) Ulrich Rabe, Pfaff AG, Kaiserslautern, Germany

Advances in flat knitting machine construction. Opportunity and challenge for the knitwear industry  
Dieter Tollkühn, Universal Maschinenfabrik, Dr.Rudolf Schieber GmbH, Westhausen, Germany

Improvement of Needle Systems by Means of CAD and Finite Elements' Method  
Dipl.-Ing. Bernhard Schuler, Groz-Beckert Nadelfabriken, Albstadt, Germany

Möglichkeiten und Grenzen der Farbmessung in der Qualitätskontrolle von Maschenstoffen  
Dipl.-Ing.(FH) Dieter Gerlinger, Datacolor AG, Heidenheim, Germany

Risiken und Chancen der Maschenindustrie in den 90-iger Jahren,  
Dieter Braun, Triumph International Holding, München, Germany

### **XXXIV. International Congress 30.8. - 2.9.1992 in Brno / ČSSR**

Präsident/President: Dipl.-Ing. Jiří Steinbauer

Teilnehmer/participants: 207 aus/from 18 Ländern/countries

#### **Vorträge / papers:**

Gegenwärtige Situation der Maschenwarenindustrie in Europa und in der Welt  
The situation of the European and world knitting industry  
J.M. Costermans, Belgien

Entwicklungsstand der nichtkonventionellen Spinnverfahren und Einsatzmöglichkeiten dieser Garne bei Maschenwaren  
Present state of development of unconventional spun yarn manufacturing methods and potential end-uses of these yarns in knitted fabrics  
Prof.Dr.-Ing.B. Wulforst, M. Gehrig, G. Tetzlaff, Germany

High-tech Elektronik - RELANIT Technologien in der Rundstrickerei  
High-tech electronics – the RELANIT technology in the production of knits on large diameter knitting machines  
Dipl.-Ing.H.J. Clauss

Zeitgemässe Zubehörgeräte für Rundstrickmaschinen - ihre Einflüsse auf Maschineneffektivität und Gestrickqualität  
Modern attachments für circular knitting machines and their influence on the machine efficiency and quality of knitted fabrics  
Dipl.-Ing.H. Behr, Germany

Einsatz der Elektronik und Automation in mit Kleinrundstrickmaschinen ausgestatteten Betrieben  
Use of electronics and automation of knitting mills equipped with small diameter knitting machines  
Dipl.-Ing.J. Matejicek, CSFR

Aktuelle Situation und Perspektiven der Weiterentwicklung von Flachstrickmaschinen  
Present state and prospects of the future development of flat-bed knitting machines  
D. Tollkühn, Germany

Bekleidungsphysiologisch funktionelle Wäsche aus zweiflächigen Maschenwaren  
Dr.K.H. Umbach, Germany

Einfluss der Windgeschwindigkeit auf die Wärmewiderstandsfähigkeit von Maschenartikeln  
Effect of wind velocity on the heat resistance of knitted fabrics  
S. Shaltiel, Dr.Y. Shoshani, Israel

Schräglauf von Maschenstäbchen verursacht durch unberuhigte Garndrehung. Theoretische Betrachtung  
Spirality in knitted fabrics caused by twist-lively yarns: a theoretical investigation  
Dr. B. Hepworth, U.K.

Einsatzmöglichkeiten von Nähgewirken hergestellt auf ARACHNE-Maschinen  
L. Duben, Z. Kochta, CSFR

Bekleidung des 21. Jahrhunderts – Einfluß und Zeit  
21st century clothing – the influence of time  
J.C. Lagarrigue, Frankreich

Bedeutung der Infografie für die Terminkürzung  
The significance of infography for shortenig of delivery terms  
M. Julien, Frankreich

Entwicklungstendenzen in der Strickerei und Konfektion bei der Herstellung von Feinstrumpfhosen  
Trend of development in the knitting mill and make up in the production of ladies panties  
Alois Vekassy, Ungarn

Ausgewählte Eigenschaften von Fäden für die Strick- und Wirkwarenindustrie  
Chosen properties of knitting yarns  
R. Kovar, CSSR

## **XXXV. International Congress 19. – 22.9.1993 in Ebnat-Kappel / Schweiz**

Präsident/President: Fritz Benz

Teilnehmer/participants: 145 aus/from 15 Ländern/countries

Vorträge / papers :

Die schweizerische Maschenindustrie und die europäischen Herausforderungen  
Rolf Langenegger, Schweiz

Die Entwicklung der Maschenindustrie in Litauen  
Dipl. Ing. Gediminas Navikauskas, Litauen



"Vom Textilfabrikanten zum Manipulanten" oder "Wie weit gelingen uns Textilexporte"  
Otto P. Kazil, Österreich

Anforderungen eines Grossverteilers an die Hersteller von Maschenwaren  
Aldo Balatti, Schweiz

Anforderungsprofil von Ringgarnen für die Wirkerei/Strickerei  
Manfred Frey, Schweiz

Strukturanalyse von OE-Rotorgarnen im Hinblick auf die Optik von Maschenwaren  
Dipl.-Ing. Monika Lauber, Deutschland

Praktischer Einsatz von neuartigen Rotorgarnen in der Maschenindustrie  
Ernst Ott, Schweiz

Wiederverwertung: Möglichkeiten und Illusionen  
Dr. Alex Krieger, Schweiz

Konfektionierendes Stricken - die «Vernetzung von Musterentwurf, Stricken und Konfektion»  
Helmut Schlotterer, Deutschland

Anwendungen von "SAMNET" für die computergesteuerte Produktion  
R. Adrian Whitely, U.K.

Erfahrungen mit CIM in einer Rundstrickerei  
Dipl.-Ing. Friedrich W. Klingsöhr, Deutschland

Sehr hohe Arbeitsgeschwindigkeiten beim Kettenwirken - welche Probleme bringen sie?  
Dr.-Ing. Monika Seeger, Deutschland

Moderne Technologien in der Maschenwarenausrüstung  
Dr. Franz Haas, Schweiz

Der Einfluss der Qualität von Rotor gesponnenen Garnen auf die Dimensionsstabilität und Schrumpfung von Interlock-Stoffen aus Baumwolle  
Allan Heap, U.K.

Modulmuster - gerade für Europa! Warum?  
Thomas Bappert, Deutschland

Vielseitige Maschentechnik für funktionelle Sportbekleidung  
Peter Eschler, Schweiz

Beitrag der Strickerei für laufende und zukünftige Entwicklungen in medizinischen Textilien  
Dr. s.c. Subhash Anand, U.K.

Kuliergestricke aus Kohlenstoffasern: Verstärkungsstrukturen für eine neue Klasse thermoplastischer Verbundwerkstoffe  
Dipl.-Ing. Jörg Mayer, Schweiz

Ergonomische Untersuchung der Grundbindung der Strickereitechnik durch Vektoranalyse  
Prof. Dr. Alajos Vékássy, Ungarn

## **XXXVI. International Congress 4. – 7.9.1994 in Ghent/Belgium**

Präsident/President: Jules Dhont

Teilnehmer/participants: 182 aus/from 14 Ländern/countries

### **Vorträge / papers:**

DER EINFLUSS DES FADENMATERIALS AUF DAS BEWEGUNGSVERHALTEN VON STRICK-  
MASCHINENNADELN

Offermann P., Prof. Dr.-Ing. habil (D), Böhm V., Dr.-Ing.

UMWIRBELTE ELASTAN-KOMBINATIONSGARNE FÜR MASCHENWAREN

Gries Th., Satlow G. (D)

INFLUENCE DE CARACTERISTIQUES DES FILS SUR DES PROPRIETES DES TRICOTS

Matthelie Jean-Pierre (F)

A NEW METHOD FOR THE PERMANENT REDUCTION-ELIMINATION OF THE SPIRALITY EFFECT OF  
SINGLE JERSEY TUBULAR KNITTED FABRICS PRODUCED FROM COTTON RING SPUN YARNS

Hepworth B., Primentas A. (GB)

OPPORTUNITIES OF MECHANICAL MEASUREMENTS ON KNITWEAR

Verstraete Daniel, ir. (B)

MODELLIERUNG DER DEFORMATION VON GESTRICKEN

Koczor Zoltán, Dipl.-Ing, Mdarschall Marceil, Dipl.-Ing, Nemeth-Erdödi Katalin, Dr-Ing (H)

SHRINKAGE: YOU DONT NEED TO MEASURE IT TO BE ABLE TO CONTROL IT

Allan Heap S. & Stevens Jill C (GB)

PRODUCTION OF KNITTED OUTERWEAR: MODERN TECHNOLOGY, HIGH PRODUCTIVITY, GREAT  
POSSIBILITES

BREGA A (I.)

"HIGH-TECH" IN DER RUNDSTRICKEREI FÜR SCHNELLE MODEANPASSUNG'

Bizer Erich (D)

FORTSCHRITTLICHSTE VERFAHRENSTECHNIK AUF ALBI-APL-MASCHINEN BEI DER HERSTELLUNG  
VON PLÜSCH- UND PLATTIERMUSTERUNGEN

Schmidt Walter, Autor (D)

DIE FLACHSTRICKMASCHINE MIT UMLAUFSCHLITTEN - EINE PRODUKTIVE ALTERNATIVE

Bauer Hans-Jürgen, Dr.-Ing. (D)

NEW TECHNOLOGY AND PATENTS IN HOSIERY

Millington John (GB)

COMPUTERGESTÜTZTE PRODUKTIONSPLANUNG UND -STEUERUNG- EINE LOGISTISCHE STRATEGIE  
FÜR MASCHENWARENBETRIEBE

Seidl Roland R., Dr und Benz Fritz (CH)

MONITORING AND QUALITY CONTROL IN KNITTING PLANTS

Dewitte Herman Ir. (B)

VERARBEITUNG EXTREMER MATERIALIEN AUF MASCHENBILDUNGSMASCHINEN ZU NEUARTIGEN  
TECHNISCHEN TEXTILIEN

Arnold Rolf Dipl-Ing (FH), Bartl Anna-Maria Dipl.-Ing. (FH), Hufnagl Evelin Dipl.-Ing. (D)

CONCERNANT QUELQUES CARACTERISTIQUES TECHNICO-FONCTIONNELLES DES ARTICLES  
TEXTILES MEDICAUX IMPLANTE A L'HOMME

Dodu Aristide Prof. (F)

SOME PROSPECTS IN THE DEVELOPMENT OF PROTECTIVE MEANS AGAINST IONIZING AND  
ELECTROMAGNETIC RADIATION ON THE BASE OF COMPOSITE TEXTILE MATERIALS

Filatov V.N Prof. (Russia)

KETTENGEWIRKTE AUTOMOBILTEXTILIEN  
EIN ÜBERBLICK DER HEUTIGEN MÖGLICHKEITEN  
Bredemeyer J. Dipl.-Ing. (D)

"NEUE TECHNOLOGIEN DER MASCHENWARENVEREDLUNG - das Ecofinish-Konzept"  
Päffgen Thomas Dipl.-Ing. (D)

PROCEDES DE STABILISATION DES ETOFFES A MAILLE  
Dascot Martine (F)

ÖKO - TEX: PRODUCT LABELLING FOR HUMAN ECOLOGY  
Dooms Frans ir (B)

ROUND TABLE DEBATE. ELECTRONIC FLAT KNITTING MACHINES  
Schlotterer H. - Stoll Tolkühn D - Universal Tansini S. - Protti

### **XXXVII. International Congress 13. – 16.10.1996 in Herzliya /Israel**

Präsident /President: Yair Rotlevi

This congress had to be cancelled 4 weeks before the beginning because of political problems and the security of the participants

### **XXXVII – XXXVIII. International Congress 17. – 19.6.1997 in Moscow / Russia**

Präsident/President: Vladimir Filatov

Teilnehmer/participants: 27 aus/from 8 Ländern/countries

#### **Vorträge / papers:**

On Mathematical Models of Knitted Envelopes and the Laws of Classic Mechanics  
V.N. Filatov, Russia

Extended Application of Knitted Fabrics for the Market  
W. Schäch, Germany

Produktionsplanung und -Steuerung (PPS) in der Rundstrickerei  
F. Benz, Schweiz

Struktur der Fadenspannung beim Fadeneinlauf an Grossrundstrickmaschinen  
P. Offermann, Deutschland

Analyse der Geschwindigkeit der Maschenbildung bei Feinstrumpfautomaten  
A. Vékássy, Ungarn

Knitting and the Future of the Textile Industry  
D.Y. Zwiers, Netherlands

New Technique for Knitting 3D-Structures  
E. Sheffer, T. Dias, U.K.

Compressive Stockings and Blood Circuit  
R. Kovář, K. Karpaš, Czech Republic

Flame Retardancy of Knitted Fabrics Containing Hybrid Viscose Blended Yarns  
C. Anand, S. Garvey, U.K.

CAD of Knitted Fabrics  
R. Čiukas, Lithuania

New Concepts for Feeding Yarn in Flat Bed Knitting Machines  
T. Dias, K. Choy, P. Xie, UK

Emerizing, Raising, Shearing  
H. Johnen, Germany

Innovationen durch kombinierte Verarbeitung von textilem Material mit Metalldraht zu technischen Gewirken  
M. Seeger, R. Arnold, H. Fuchs, U. Herrmann, Deutschland

Robotics and Whole Garment. Automation in Knitwear and Hosiery Manufacture  
J. Millington, UK

Innovative Knitted Structures for Agricultural and Horticultural Uses  
R. Arnold, M. Seeger, A. Bartl, E. Hufnagl, Germany

The simulation of knitting process by dimensional analysis  
M. Srdjak, Z. Pentek, Croatia

Influence of needle timing of the structural parameters of interlock fabrics  
V. Lasić, Croatia

Optimization of sewing process relating to high risk damage materials  
M. Subotsky, A. Feldman, Israel

The production of knitting needles in the Groz-Beckert Company  
S.V. Poletaev, Russia

Finishig equipment for sold separately knitting articles  
A. Abramov, Russia

## **IXL. International Congress 5. – 8.10.1998 in Busto Arsizio / Italy**

Präsident/President: Armando Colombo

Teilnehmer/participants: 53 aus/from 14 Ländern/countries

### **Vorträge / papers:**

The present and future of the textile-machine market  
Giovanni Rusconi, ACIMIT, Italy

The technological evolution of the knitting flatbed machines: towards finished product, simplification and flexibility  
Sergio Tannini, Protti spa, Italy

The search for "dynamic" fabrics for activewear  
Subash Anand, Bolton Polytechnic, Great Britain

The influence of cam shape upon interlock knitted fabric parameters  
Miroslav Srdjak, TTF Zagreb, Croatia

Hosiery: Actual trends and future perspectives  
Franco Sciacca, Promatex, Italy

New developments in the production of shaped knitted fabrics  
Jolanta Ledwon, Lodz Polytechnic, Poland

The "organic" cotton. Applications and employments of cotton yarns "Tanguis"  
Paul Egger, NEF+Co, Switzerland

Laser: A technology also for the textile sector  
Gianluca Luoni, MMT, Italy

Cotton yarn deformations caused by knitting  
Zlatko Vrljicak, TTF Zagreb, Croatia

CAD applications for production of underwear  
Hartmut Rodel, TU Dresden, Germany

The automated production of complete hosiery, knitwear and bodywear garments  
John Millington, JM Associates, Great Britain

Linen knitted apparel: specialty for hot climates, now also an offer for all year use  
Stephania Many, Institute of natural fibres Poznan, Poland

New technologies for lubrication of textile machines  
Riccardo Vieri, Mega Lube Corporation, Italy

Textile Logistics - a new education meets the requirements of the next millennium  
Rolando Seidl, STF Wattwil, Switzerland

A research on the operational limits of the automated machines for women's tights  
Alois Vekassy, Hungarian Society of Textile Technology and Science, Hungary

## **XL. International Congress 17. – 20.10.2000 in Budapest / Hungary**

Präsident/President: Károly Lázár

Teilnehmer/participants: 150 aus/from 18 Ländern/countries

### **Vorträge / papers:**

The Hungarian Knitting Industry. An overview  
Károly Lázár, President of the Hungarian Section of IFKT, Hungary

Beschaffungssituation eines weltweit tätigen Maschen-/Bekleidungsunternehmens am Beispiel von TRIUMPH INTERNATIONAL im Wandel der Zeiten  
Dieter Braun, Triumph International, Germany:

Some Thoughts About Production Planning and Scheduling System in a Full Service Vertical Manufacturing Facility – Summary  
László Szuchy, Danube Knitwear Ltd. (H)

Past, Present and Future of Complete Garment Knitting  
John Millington, John Millington Associates (UK)

Tendency and New Developments in Flat Knitting Machines  
Alexander Jurenak, Steiger S.A. (CH)

Die wartungsfreie Stahl-Kunststoff-Hochleistungsnadel für Großrundstrick-Maschinen  
Dipl.Ing. (FH) Albert Bausch, Groz-Beckert KG.(D)

Concepts for a Successful Production of Textile Parts in Germany  
Dr. Bernd Gems, Kern-Liebers Knitting Parts GmbH (D):

The Circular Machine as Production Unit  
Erich Bizer, Mayer & Cie. (D)

Doppelseitige Polgewirke - eine neue Technologie erschließt Einsatzgebiete  
Dieter Erth and B. Klemm, Karl Mayer Malimo GmbH (D)

3D Knitted Structures - What Are They Good for and How to Make Them  
Dr. E. Sheffer, Shenkar School of Engineering and Design (IL) and  
Dr Tilak Dias, Department of Textiles, UMIST (UK)

Mechanical Finishing for Knitted Fabrics: Raising, Shearing, Polishing, Sueding  
Antonio Danti, Danti Paolo e C. S.r.l. (I)

Quality management  
Trevor Robson, Shirley Developments Ltd. (UK):

Chance of Successfulness in BUSINESS: Quick Response to the Customers' Requirements at Development of Knitted Fabrics

Dr. Zoltán Koczor and Dr. Katalin Erdödi Németh, Budapest Technical College - Faculty „Sándor Rejtő" of Light Industry (H)

Correlation and Regression Analysis of Parameters of Weft Knitted Structures During the Dry Relaxation

Vladimir Lasić, University of Zagreb (HR):

Model Analysis of Air-Interlaced Yarns With Elasthane And Their Assesment By Computer Aided Image Analysis

Elżbieta Mielicka, Institute of Knitting Technique and Technology "Tricotextil" (PL)  
Prof. Kazimierz Kopias, Technical University of Łódz,

Neue Forschungsergebnisse in der Wirkerei-Strickerei für technische Anwendungen

Dr. Gerald Hoffmann and Dr. Peter Offermann, Technical University of Dresden (D)

Objektivierung der Griffbewertung von Strumpfwaren mit dem „ITV-Griff-Tester"

Dipl. Ing. (FH) Adolf Seidel, ITV, Denkendorf (D) and  
Prof. Dr.-Ing. H. Plank, Fachbereich Strickerei, Wirkerei und Konfektion, (D)

Neue Konstruktion von Maschenwaren als Schutz gegen die Wirkung von Elektromog

Dr. Bohumil Piller, Bruna Scientific Research Laboratory (CZ) and  
Mario Vlcek, ALAE LUPULI (CZ)

Studies on Spirality of Single Knit Fabrics of Bulky and Conventional Wool Yarns

Shin-Woong Park, University of INHA (Korea) and  
Stewart Collie, Wool Research Organization of New Zealand:

Herstellung und Anwendung supergrober Kettengewirke

Rolf Arnold, M. Seeger, A.-M. Bartl, E. Hufnagl, Sächsische Textilforschungsinstitute e.V. and  
H.-J. Bauer, B. Anger TU Chemnitz (D):

Messung des Nadelhebens und -senkens bei der Maschenwarenherstellung

Dr. Zlatko Vrljičak and Prof. Dr. Miroslav Srdjak, University of Zagreb (HR)

Produktorientierte Bezeichnungen für Maschenwaren

Ines Wünsch, Technical University of Dresden (D)

## **XLI. International Congress 1. – 4.10.2002 in Zagreb / Croatia**

Präsident/President: Prof. Dr. Miroslav Srdjak

Teilnehmer/participants: 62 aus/from 11 Ländern/countries

### **Vorträge / papers:**

Croatian Textile, Knitting and Garment Industry  
*Hrvatska tekstilna, trikotazna i odjevna industrija*  
Mirjana Gambiroža-Jukić, Croatia

The Effect of Doing Commission (CMT) Work on the Development of the Hungarian Knitting Industry  
*Utjecaj uslužnog (lohn) posla na razvoj mađarskog pletstva*  
Károly Lázár

Knitted Fabrics Projecting-Limits and Possibilities  
*Projektiranje pletiva - granice i mogućnosti*  
Radko Kovař

Influence of Yarn Type on Hand of Knits  
*Utjecaj vrste prede na opip pletiva*  
Jiři Militký, Vladimír Bajzík

Selection of the Raw Material and Structures of the Knitting Fabric in the Aspect of the Psychological Properties

*Utjecaj sirovine iprepleta na biošzicka svojstva pletiva*

Elżbieta Mielicka, Teresa Massalska-Lipińska, Grażina Wykin-Orlikowska

Teresa Manduk-Chuchla

Parameters of Knitted Fabric Made out of Core-spun Elastomeric Yarn

*Parametri pletiva izradenog od obavijene elastomerne prede*

A.Pavko-Čuden, G. Lumpert, M. Makše, Slovenia

Deformability of the Filet Warp-Knitted Structure

*Deformacije na rupiöastim osnovinim pletivima*

Irena Plachá

Revolving knitting elements

*Rotirajuci pletaci elementi*

Radko Kovař, Czechia

Force Distribution in a Cloth Specimen, During Breaking Test

*Raspodjela sila u uzorku podvrgnutom kidanju*

Iván Szücs, Hungary

Comparison of Mechanical Properties of Woven and Knit Interlinings

*Usporedba mehanickih svojstava tkanih i pletenih podstava*

Krste Dimitrovski

An Approach to Finding Parameters on Overall Properties of Warp Knitted Fabrics Using Cluster Analysis

*Istrazivanje parametara Struktura koji utjecu na svojstva osnovinih pletiva pomocu clusterske analize*

Hye-Shin Yoon, Shin-Woong Park. Korea

Enzymatic scouring to Improve Cotton Knit Fabric

*sewability Enzimatsko iskuhavanje pamuka sa svrhom poboljsanja prosivljivosti pamucnog pletiva*

Ana M. Grancarić, Sonja Bešenski, Dilajla Zulić, Zlatko Vrljićak, Croatia

Changing World Patterns in Hosiery and Flat Machine Knitwear

*Promjena sfera utjecaja u caraparstvu i pletastvu na ravnopletacim strojevima*

John Millington, U.K.

Developments in Textile-education in Enschede

*Razvoj tekstilnog obrazovanja u Enschedeu*

Daaf Zwiers, Netherlands

Influence of Different Factors on Warp Knitted Fabrics Properties

*Utjecaj razlicitih faktora na svojstva osnovinih pletiva*

Mirela Blaga, Romania

Study of Mechanical Properties of a Knitwear

*Studij mehanickih svojstava pletiva*

Marija Karba, Jelka Geršak, Zoran Stjepanović

Application of Artificial Neural Network for Predicting the Stable Dimensions of Weft Knitted Cotton Fabric

*Primjena umjetne neuronske (neural) mreze za predvidanje stabilnih dimenzija pamucnih pletiva*

P.K.Banerjee, India

A new knitting machine from Steiger

*Novi ravnopletacni strojevi iz Steigera*

Alexander J.A.Jurenak, Switzerland

Technical Textiles - A Challenge for Knitting

*Tehnicky tekstil - izazov za pletastvo*

Marcus O. Weber, Germany

A Selection of Modern Attachments for Knitting Machines to Increase Machine Productivity and to Improve Fabric Quality

*Predstavlanje nekih novih pomocnih uredaja namjenjenih pletacim strojevima sa svrhom povecanja proizvodnog ucinka stroja i kvalitete pletiva*

Uli Oppold, Germany

Investigation of the Stability of Knitting Process  
*Jspitivanje stabilnosti procesa pletenja*  
Ricardas Čiukas, Darius Sadauskas, Lithuania

Garnschonende Fadenzuführung an Kettenwirkmaschinen  
*Rekonstrukcija napinjaca osnove na osnovoprepletacim strojevima*  
Ahmet Ünal, Gerald Hoffmann, Peter Offermann, Germany

Polarorthotrop verstärkte Scheibenpreform für die Kunststoffverstärkung  
*Pojacani kruzni i prožlirani oblici kulirnih tehnickih pletiva*  
H. Cebulla, O. Diestel, P. Offermann, Germany

Labstricktester - ein „on-line“ Diagnosesystem zur Beurteilung des Garnes und des Strickprozesses  
*Laboratorijski fester pletenja- "on-line" dijagnosticki sistem ocjene prede i procesa pletenja*  
Krzysztof Kowalski, Poland

Analyse der Strukturparameter von glatter Kulliermaschenware  
*Analiza parametara strukture glatkih kulirnih pletiva*  
Zlatko Vrljičak, Miroslav Srdjak, Zenun Skenderi, Hrvoje Šilc, Croatia

Anforderungsprofil an den Kopf einer modernen Rundstricknadel  
*Poboljsanja na kukicama modernih jezicastih igala*  
Albert Bausch, Germany

Betriebliche Produktivitätskontrolle  
*Pogonska kontrola produktivnosti*  
Friedrich-W. Klingsöhr, Germany

Anwendung einer auf Kundenerwartungskompromiss basierenden Planungsmethode in der Praxis der  
Produktplanung einer Maschenware  
*Primjena planiranog kompromisa s kupcima u proizvodnji pletiva zasnovana na Harrington metodi*  
Katalin Németh Erdödi, Tímea Tóth, Livia Kokas Palicska, Hungary

## **XLII. International Congress 5. – 8.10.2004 in Lodz / Polen**

Präsident/President: Elżbieta Mielicka PhD

Teilnehmer/participants: 124 aus/from 14 Ländern

### **Vorträge / papers:**

Situation of the Textile Industry in Poland  
Wołukanis A. [PL]

Relationship Between Knitting Parameters and Properties of a Plain Knitted Fabric  
KARBA M., STJEPANOVIĆ Z., SRDJAK M. [SLO, HR]

Knitted Fabrics with New Structural Elements Based on Stitch Transfer Technique  
Comandar C. [RO]

New Structure of Warp Interlock Knitted Fabric with the Increased Surface Cover  
Kopias K., Pinar A. [PL]

Nanotechnologies in the Textile Science and Industry  
Łaszkiewicz B. [PL]

Quality of Spun Knitting Yarns of 50/50% Cotton/Modal Blend and 100% Viscose  
Srdjak M. , Skenderi Z. [HR]

Yarns Formed Modern Spinning Systems  
Jackowski T., Cyniak D., Czekalski J. [PL]



Fibre and Finishing Options  
Robinson J. [GB]

Application of Weft Knitted Velour for Non Clothing Products (Toys)  
Pavko-Čuden A., Stankovic S., Leskovsek M., Stankovic-Elesini U. [SLO]

Technical and Medical Textiles – A Challenge to the Knitting Industry  
Lázár K. [H]

Cars, Seats and Headliners  
Wilkens C [D]

New Developments in the Field of Protective Clothing  
Rossi R. [CH]

Dyeing and Finishing of Knit Fabrics Containing Dorlastan  
Naroska D. [D]

Textile Education 2010 - New Aspects from Brain Research  
Weber M. [D]

Shrinkage of Knitted Fabrics Made of Different Structure of Raw Materials  
Kopias K., Śledzińska K. [PL]

The Dependence Between the Structure Parameters of the Fur Knittings and the Parameters  
of the Compression Process  
Korliński Wł., Patyk B. [PL]

Influence of Raw Material's kind on Next to the Skin Microclimate's Parameters in Unstable Use Conditions  
Kowalski K., Nyka M., Manduk T., Orlikowska-Wykin G., Korliński W. [PL]

Studies on Dimensional Stability of Warp Knitted Fabrics as a Function of their Structural Parameters  
Comparing PTT (Poly Trimethylene Terephthalate) with PET (Poly Ethylene Terephthalate) Warp Knitted Fabrics  
Park S.-W., Song M.-H., Roh Y.-H., Chung H.G., Kang B.C., Yoon H.S. [KR]

Trends of Optimisation of Mechanical Properties and Measurement Methods of Knitted Pressure Products  
Ledwoń J. [PL]

Investigation on the Stitch Length into the Edge of Shaped Fully-fashioned Knitted Panels  
Angelova Y., Kyosev Y. [BG]

Gradient of Human Body Temperature as a Determinant of Diverse Heat Protection of  
Knitted Products  
Mikołajczyk Z., Dembowski M. [PL]

Main Factors Restricting the Planning Process of Production of Patterned Tights and Socks  
Caused by Shortening Pattern Series  
Prysiński Ł. [PL]

Development and Utilisation of the Model for Product's Plan in Textile Industry  
Koczor Z., Kokasné Palicska L.-N., Erdődi K. [H]

Consumption of Bent Batch Needles in Hosiery Manufacture  
Vrljičak Z., Srdjak M. [HR]

Assignment Of Work Load Index For An Operator Of Selected Textile Machines  
Ciurapski R., Zdziennicki Z. [PL]

## **XLIII. International Congress 1.- 5.10.2006 in Plovdiv/ Bulgaria**

Präsident/President: Prof. Dr. I. Georgiev

Teilnehmer/participants: 80 aus/from 12 Ländern

### **Vorträge:**

Paul KIKENS, Belgium  
Margarita NEZNAKOMOVA, Bulgaria

SITUATION OF THE SOUTH EAST EUROPE KNITTING  
INDUSTRY AND MARKETS FOR TEXTILES, YARNS AND ACCESSORIES  
Carl STIEL  
Avanz-Management and Consulting , Romania

СЪСТОЯНИЕ НА ПЛЕТАЧНАТА ИНДУСТРИЯ В  
ЮГОИЗТОЧНА ЕВРОПА И ПАЗАРИТЕ ЗА ТЕКСТИЛ,  
ПРЕЖДИ И ДОПЪЛНЕНИЯ  
Карл СТИЕЛ  
Avanz-Управление и консултации Румъния

INVESTIGATION OVER AIR-JET YARN PROPERTIES AND THE REQUIREMENTS FOR THE KNITTING  
PROCESS  
Yordan KYOSEV, Ingo REINBACH, Thomas GRIES  
Institute for Textile Technology, RWTH Aachen University, Germany

ИЗСЛЕДВАНЕ НА СВОЙСТВАТА НА АЕРОДИНАМИЧНИ ПРЕЖДИ И ИЗИСКВАНИЯТА ЗА ПЛЕТАЧНИЯ  
ПРОЦЕС  
Й. КЪОСЕВ, ТУ- София, България , И. РАЙБАХ, Т. ГРИЙС

INFLUENCE OF THE PAN FIBRE TYPE ON THE PROPERTIES OF BULK YARNS FOR KNITTING  
Margarita NEZNAKOMOVA, Ivan GEORGIEV  
Technical University – Sofia, Bulgaria

ВЛИЯНИЕ НА ВИДА НА ПАН ВЛАКНАТА ВЪРХУ КАЧЕСТВАТА  
НА ОБЕМНИТЕ ПРЕЖДИ, ПРЕДНАЗНАЧЕНИ ЗА ПЛЕТЕНЕ  
М. НЕЗНАКОМОВА, И. ГЕОРГИЕВ ТУ - София, България

DER EINFLUSS DES PAN-FASERNART AUF DIE EIGENSCHAFTEN DER HOCHBAUSCHGARNE FÜR  
STRICKWAREN  
Margarita NEZNAKOMOVA, Ivan GEORGIEV - TU Sofia, Bulgaria

THE KNITTED FABRIC HAND IN THE FUNCTION OF YARN CHARACTERISTICS  
Ivana SALOPEK, Zenun SKENDERI, Miroslav SRDJAK  
University of Zagreb, Croatia

ВЛИЯНИЕТО НА ХАРАКТЕРИСТИКИТЕ НА НИШКИТЕ  
ВЪРХУ ОПИПА НА ПЛЕТИВАТА  
И. САЛОПЕК, З. СКЕНДЕРИ, М. СРДЧАК  
Университет Загреб, Хърватска

MASCHENWARENGRIFF IN DER FUNKTION DER GARN- EIGENSCHAFTEN  
Ivana SALOPEK, Zenun SKENDERI, Miroslav SRDJAK, Croatia

EFFECTIVE YARN DIAMETER IN KNITTED FABRICS  
Radko KOVÁŘ, Martin Krula  
Technical University of Liberec, Czech Republic

EFFEKTIVER GARNDURCHMESSER IN DER MASCHENWARE  
R. KOVÁŘ, M. Krula, Czech Republic

IMPACT OF DIRECTION ON STRENGTH AND BREAKING ELONGATION OF WEFT KNITTED FABRICS  
Radko KOVÁŘ, Iva MERTOŮVÁ  
Technical university of Liberec, Czech Republic

ВЛИЯНИЕ НА НАПРАВЛЕНИЕТО НА НАТОВАРВАНЕ ВЪРХУ ЗДРАВИНАТА И УДЪЛЖЕНИЕТО ДО СКЪСВАНЕ ЗА НАПРЕЧНО ПЛЕТЕНИ ИЗДЕЛИЯ  
P. KOVAR, I. MERTOVA  
ТУ Либерец, Чехия

RICHTUNGSORIENTIERENDE DEHNUNG UND FESTIGKEIT  
DER KULIERGEWIRKE ZUSAMMENFASSUNG  
R. KOVAŘ, I. MERTOVA, Czech Republic

WARP KNITTED FABRICS EXTENSIBILITY  
Irena LENFELDOVA  
Technical university of Liberec, Czech Republic

РАЗТЕГЛИВОСТ НА ОСНОВОПЛЕТЕНИТЕ ИЗДЕЛИЯ  
И. ЛЕНФЕЛДОВА  
ТУ Либерец, Чехия

DIE GEWIRKEDEHNBARKEIT  
Irena LENFELDOVA, Czech Republic

FAILURE PROPAGATION IN WEFT KNITTED STRUCTURE  
Martina SYROVATKOVA, Radko KOVAR  
Technical university of Liberec, Czech Republic

РАЗПРОСТРАНЕНИЕ НА ДЕФЕКТА ПРИ НАПРЕЧНОПЛЕТЕНИ СТРУКТУРИ  
M. СИРОВАТКОВА, P. КОВАР  
ТУ Либерец, Чехия

DIE DEFLEKTVERBREITUNG IN DER MASCHENWARE  
M. SYROVATKOVA, R. KOVAR, Czech Republic

NET TYPE WEFT KNITTED FABRICS WITH DIFFERENT SHAPED APERTURES  
Prof. Ing. Constanta COMANDAR, Ph.D , Ing. Cezar Andrei BABII, Ph.D Technical University "Gh. Asachi"  
Iasi, Romania

АЖУРЕНИ ПЛЕТИВА С РАЗЛИЧНИ ОТВОРИ  
K. КОМАНДАР, Ц. БАБИИ ТУ Яш, Румъния

NETZ-GESTRICKE MIT VERSCHIEDENEN ÖFFNUNGEN  
C. COMANDAR, C. BABII, Romania

THE COMPUTER METHOD OF MEASUREMENT OF THE YARN LENGTH IN LOOP IN 3D SYSTEM  
Prof. Dr. hab. Eng. Kazimierz KOPIAS (1) Dr. eng. Anna PINAR (2)  
Technical University of Łódź, Poland  
(1) Department of Knitting and Structure of Knitted Products,  
(2)TRICOTEXTIL, Institute of Knitting Techniques and Technologies,  
Lodz, Poland

КОМПЮТЪРЕН МЕТОД ЗА ИЗМЕРВАНЕ ДЪЛЖИНАТА НА НИШКАТА В БРИМКАТА ПРИ ТРИИЗМЕРНИ СИСТЕМИ  
K. КОПИАС ТУ Лодз, Полша  
A. ПИНАР Трикотекстил, Лодз, Полша

COMPUTERMETHODE DER MESSUNG DER LÄNGE DES GARNES IN DER MASCHEN IN DEM DREIDIMENSIONALEN SYSTEM  
K. KOPIAS, A. PINAR, Poland

FABRIC DIMENSIONAL CHANGES OF CORE SPUN COTTON-SPANDEX 1x1 RIB STRUCTURES  
Herath C.N., Kang B.C., Shin W. Park, INHA University, Incheon,  
South Korea

РАЗМЕРИТЕ ПРИ РЕЛАКСАЦИЯ НА ПЛАТ ОТ СЪРЦЕВИННА ПРЕЖДА ПАМУК-СПАНДЕКС В ПЛЕТКА ЛАСТИК 1X1  
C.X. ХЕРАТ, Б. С. КАНГ, С.В. ПАРК  
Ина Университет, Инчеон, Южна Корея

DIMENSIONALE ÄNDERUNGEN DES KERNSPONNENER BAUMWOLLE/SPANDEX 1X1 RIB GESTRICKT  
STRUKTUREN UNTER ENTSPANNUNG

HERATH C. N., KANG B. C., Shin W. PARK, South Korea

DIMENSIONAL PARAMETERS OF CORE SPUN  
COTTON-SPANDEX 1X1 RIB STRUCTURES

HERATH C. N., Bok Choon KANG, Shin Woon PARK  
Department of Textile Engineering, Inha University, 402-751, Incheon, Korea

ИОНАЛНИ ПАРАМЕТРИ НА ПЛАТ ОТ СЪРЦЕВИННА ПРЕЖДА ПАМУК-СПАНДЕКС В ПЛЕТКА ЛАСТИК  
1X1

С. Х. ХЕРАТ, Б. С. КАНГ, С. В. ПАРК  
Ина Университет, Инчеон, Южна Корея

DIMENSIONALE PARAMETER DES KERNSPONNENER BAUMWOLLE/SPANDEX 1X1 RIB GESTRICKT  
STRUKTUREN

HERATH C. N., Bok Choon KANG, Shin Woon PARK, Incheon, Korea

REASONS FOR SPIRALITY OF KNITTED FABRIC

Zlatko VRLJIČAK  
University of Zagreb, Faculty of Textile Technology,  
Department of Textile-Mechanical Technology, Zagreb, Croatia

ОСНОВНИ ПРИЧИНИ ЗА СПИРАЛОВИДНОТО ОФОРМЯНЕ НА ПЛЕТЕНИТЕ ИЗДЕЛИЯ

Златко ВРЛИЈЧАК Университет Загреб Хърватска

GRÜNDE FÜR DIE SPIRALFÖRMIGKEIT DER MASCHENWARE

Zlatko VRLJIČAK, Croatia

EFFECT OF THE DYEING CONDITIONS ON THE YARN BEHAVIOR AT FLAT WEFT KNITTING

Milena KOLEVA, Yordanka ANGELOVA  
Technical University, Gabrovo, Bulgaria

ВЛИЯНИЕ НА УСЛОВИЯТА НА БАГРЕНЕ НА ПРЕЖДИ В/ПАН  
ВЪРХУ ПОВЕДЕНИЕТО ИМ ПРИ НАПРЕЧНО ПЛЕТЕНЕ

М. КОЛЕВА, Й. АНГЕЛОВА, ТУ - Габрово, България

EINFLUSS DER BEDINGUNGEN DES FÄRBENS VON GARNEN AUF DEREN VERHALTEN BEI DER  
STRICKEN

М. KOLEVA, Y. ANGELOVA, Bulgaria

APPLICABILITY OF GENETIC ALGORITHMS IN KNITTING

Mirela BLAGA, Dorin DAN, Mariana URSACHE  
"Gh. Asachi" Technical University, The Faculty of Textiles and Leather Engineering, Iasi, Romania  
Adriana GHEORGHIES  
"A.I.Cuza" University, Faculty of Informatics, Iasi, Romania

ПРИЛОЖИМОСТ НА ГЕНЕТИЧЕСКИ  
АЛГОРИТМИ В ПЛЕТЕНЕТО

М. БЛАГА, Д. ДАН, М. УРСАЧЕ  
Технически Университет - Яш, Румъния  
А. ГЕОРГИЕС  
"А.И.Куза" Университет, Факултет по информатика, Яш, Румъния

ANWENDBARKEIT DER GENETISCHEN ALGORITHMEN BEIM STRICKEN

М. BLAGA, D. DAN, M. URSACHE, Adr. GHEORGHIES, Romania

OPTIMIZING OF THE PROCESSING PARAMETERS AT INTERLACED DESIGN KNITTING ON WEFT  
KNITTING MACHINES

Andreas HARALAMBUS, Gani STAMOV  
College Sliven, TU – Sofia, Bulgaria  
Stavros Andrew STAVRY  
SU "St. Kliment Ohridski" Sofia, Bulgaria

ОПТИМИЗИРАНЕ НА ТЕХНОЛОГИЧНИТЕ ПАРАМЕТРИ  
ПРИ ПЛЕТЕНЕ НА ПЛЕТЕНИЦИ НА НАПРЕЧНИ  
ПЛОСКОПЛЕТАЧНИ МАШИНИ  
А. ХАРАЛАМБУС, Г. СТАМОВ  
Колеж Сливен, ТУ-София,  
СТ. СТАВРУ  
СУ "Св. Кл. Охридски", София

OPTIMISIERUNG DER TECHNOLOGISCHEN PARAMETER  
BEIM STRICKEN DER STRICKMUSTER MIT QUER-FLACHSTRICKMASCHINEN  
A. HARALAMBUS, G. STAMOV, St. STAVRY, Bulgaria

NEW STUDY PROGRAMMES AT DEPARTMENT OF TEXTILES, UNIVERSITY OF TEXTILES,  
UNIVERSITY OF LJUBLJANA, SLOVENIA  
Alenka PAVKO-CUDEN, Franci SLUGA  
University of Ljubljana, Faculty of Natural Sciences and Engineering,  
Department of Textiles, Ljubljana, Slovenia

НОВИ УЧЕБНИ ПРОГРАМИ ВЪВ ФАКУЛТЕТА ПО  
ТЕКСТИЛ НА УНИВЕРСИТЕТА ЛЮБЛЯНА-СЛОВЕНИЯ  
А. ПАВКО-КУДЕН, Ф. СЛУГА  
Университет - Любляна, Словения  
A. PAVKO-CUDEN, F. SLUGA, Slovenia

REAL AND VIRTUAL IN TEACHING KNITTING TECHNOLOGY – ARGUMENTS FOR MAINTAINING  
DIVERSITY IN THE LEARNING ENVIRONMENT  
Mariana URSACHE, Mirela BLAGA, Dorin DAN  
"Gh.Asachi" Technical University, Faculty of Textiles and  
Leather Engineering, Iasi, Romania

РЕАЛНО И ВИРТУАЛНО В ПРЕПОДАВАНЕТО НА ПЛЕТАЧНИ ТЕХНОЛОГИИ-АРГУМЕНТИ ЗА  
ПОДДЪРЖАНЕ НА РАЗНООБРАЗИЕ В УЧЕБНАТА СРЕДА  
М. УРСАЧЕ, М. БЛАГА, Д. ДАН , ТУ Яш, Румъния

REAL UND VIRTUELL IN UNTERRICHTENDER STRICKENDER TECHNOLOGIE - ARGUMENTE FÜR  
BEIBEHALTENE VERSCHIEDENARTIGKEIT IM ERLERNENKLIMA  
M. URSACHE, M. BLAGA, D. DAN, Romania

USING MOTION GRAPHICS IN E-LEARNING FOR KNITTING PROJECTS  
Dorin DAN, Mirela BLAGA, Mariana URSACHE  
"Gh. Asachi" Technical University, The Faculty of Textiles and  
Leather Engineering, of Iasi, Romania

ИЗПОЛЗВАНЕ НА ДВИЖЕЩА СЕ ГРАФИКА В  
Е-ОБУЧЕНИЕТО ПРИ ПРОЕКТИРАНЕ НА ПЛЕТИВА  
Д. ДАН, М. БЛАГА, М. УРСАЧЕ  
ТУ Яш, Румъния  
VERWENDEN DER ANIMATIONSGRAPHIKEN IN E-LEARNING FÜR STRICKENDE PROJEKTE  
D. DAN, M. BLAGA, M. URSACHE, Romania

CHANGES IN ROMANIAN TEXTILE HIGHER EDUCATION AT  
THE FACULTY OF TEXTILE AND LEATHER ENGINEERING  
OF THE TECHNICAL UNIVERSITY OF IASI, ROMANIA  
Mariana URSACHE, Mirela BLAGA, Dorin DAN  
"Gh. Asachi" Technical University, The Faculty of Textiles and  
Leather Engineering, of Iasi, Romania

ПРОМЕНИ ВЪВ ВИСШЕТО ОБРАЗОВАНИЕ ПО ТЕКСТИЛ В ИНЖЕНЕРНИЯ ФАКУЛТЕТ ПО ТЕКСТИЛ И  
КОЖИ НА ТЕХНИЧЕСКИЯ УНИВЕРСИТЕТ В ЯШ, РУМЪНИЯ  
М. УРСАЧЕ, М. БЛАГА, Д. ДАН , ТУ Яш, Румъния

DIE ÄNDERUNGEN AN DER RUMÄNISCHEN HOCHAUSBILDUNG FÜR TEXTIL AN DER FAKULTÄT FÜR  
TEXTILIEN VON DER TECHNISCHEM UNIVERSITÄT VON IASI, ROMANIA  
M. URSACHE, M. BLAGA, D. DAN, Romania

## METHOD FOR EXPRESS DETERMINATION OF THE PARAMETERS OF TIGHTS' KNITTING

Senior research associate eng. Veselin MINCHEV Bulgaria  
 МЕТОД ЗА ЕКСПРЕСНО ОПРЕДЕЛЯНЕ НА ПАРАМЕТРИТЕ  
 ЗА ПЛЕТЕНЕ НА ЧОРАПНИ ИЗДЕЛИЯ  
 Ст.н.с. инж. В. МИНЧЕВ България

## METHODEN FUER EXPRESSBESTIMMUNG VON PARAMETERN ZUM STRICKEN DER STRUMPFWAREN

Prof.Dipl.Ing. Wesselin MINCHEV  
 Bulgarien

## TOWARDS THE INTEGRATION OF TEXTILE

SENSOR IN A GARMENT  
 Georgios PRINIOTAKIS  
 Technological Educational Institute  
 Department of Textile Engineering Athens, GREECE

## ОТНОСНО ИНТЕГРИРАНЕТО НА СЕНЗОРИ В ТЕКСТИЛНОТО ОБЛЕКЛО

Г. ПРИНИОТАКИС , ТЕІ Пирея, Атина, Гърция

## SPECIAL PROTECTION SUITS OF FABRIC AERIAL PRODUCTS FOR PROTECTION OF ELECTROMAGNETIC FIELDS

Alexandar SPASOV , Ivan MLADENOV,  
 Krasa KOSTOVA, Velko VELKOV, Ivan TOPCHIIISKY  
 ИПИО ВА - "G.S.Rakovski" Bulgaria

КРЪГЛОПЛЕТЕН ПЛАТ "СТРАЖ" С ВЪТЪКОПОЛОЖЕНА  
 МЕТАЛНА НИШКА ЗА ЗАЩИТА ОТ ЕЛЕКТРОМАГНИТНИ ПОЛЕТА

Александър СПАСОВ , Иван МЛАДЕНОВ, Краса КОСТОВА  
 Изпълнителна агенция "Изпитвания и контролни  
 измервания на въоръжения, техника и имуществва" - МО  
 ст.н.с. инж. Велко ВЕЛКОВ  
 ИПИО на ВА "Г.С. Раковски", България

## WARP- KNITTED GEOTEXTILES FOR EROSION PROTECTION AND GREENING OF EMBANKMENTS

Monika SEEGER (1) Rolf Arnold (1) Reinhard HELBIG (1) Holger ERTH (1) Hans-Jürgen BAUER (2) Bernd ANGER(2)  
 (1) STFI Chemnitz, (2) TU Chemnitz, Germany

ОСНОВОПЛЕТЕНИ ГЕОТЕКСТИЛИ ЗА ЗАЩИТА ОТ  
 ЕРОЗИЯ И УКРЕПВАНЕ НА КАНАВКИ

М. СИИГЪР,  
 Р. АРНОЛД, Р. ХЕЛБИГ, Х. ЕРТ, Х. БАУЕР, Б. АНГЕР  
 Саксонски Текстилен Институт, Кемниц, Германия

KETTENGEWIRKTE GEOGITTER FÜR EROSIONSSCHUTZ  
 UND BÖSCHUNGSBEGRÜNUNG

М. SEEGER, А. HELBIG, Н. ERTH, Н. BAUER, В. ANGER, Germany

## THE KNITTED FABRIC WITH SPECIAL PROTECTIVE PROPERTIES

Elzbieta MIELICKA, Anna PINAR, Bogumił ŚWIDERSKI  
 TRICOTEXTIL, Institute of Knitting Techniques and Technologies, Lodz, Poland

## ПЛЕТИВА СЪС СПЕЦИАЛНИ ЗАЩИТНИ СВОЙСТВА

ЕЛ. МИЕЛИСКА, А. ПИНАР, Б. СВИДЕРСКИ  
 Трикотекстил - Лодз  
 Полша

## GEWIRKTE TEXTILIEN MIT SPEZIELLEN SCHUTZEIGENSCHAFTEN

Е. MIELICKA, А. PINAR, В. ŚWIDERSKI, Poland

## PRODUCT DEVELOPMENT OF KNITTED GOODS IN THE SPIRIT OF COMPETITIVENESS

Károly LÁZÁR,  
 President of the Hungarian Section of IFKT, Hungary  
 Katalin Erdődi NÉMETH, Zoltán KOCZOR  
 Budapest Technical College, Hungary

 РАЗРАБОТВАНЕ НА КОНКУРЕНТОСПОСОБНИ  
 ПЛЕТЕНИ ИЗДЕЛИЯ

К. ЛАЗАР, К. НЕМЕТ, З. КОЦЗОР  
 Технически колеж, Будапеща Унгария

## PRODUKTENTWICKLUNG VON MASCHENWAREN IM SINNE DER KONKURRENZFÄHIGKEIT

К. LÁZÁR, К. NÉMETH, З. KOCZOR, Hungary  
 SOFTWARE PLANNING AND PRODUCTIONS PLANNING FOR KNITTING ENTERPRISE WITH COMPLETE  
 CYCLE OF MANUFACTURE  
 Erwin DÖRNER  
 DOKU GmbH Textile Software, Germany

СОФТУЕРНО ПЛАНИРАНЕ И УПРАВЛЕНИЕ НА ПРОДУКЦИЯТА ЗА ТРИКОТАЖНИ ПРЕДПРИЯТИЯ С  
ПЪЛЕН ЦИКЪЛ НА ПРОИЗВОДСТВО

Е. ДАЕРНЕР  
 DOKU GmbH Textile Software, Германия

SOFTWAREUNTERSTÜTZTES PRODUKTIONSPLANUNGS - UND STEUERUNGSSYSTEM FOR  
VOLLSTUFIGE STRICKEREIEN

Erwin DOERNER  
 DOKU GmbH Textile Software, Germany

KNITTED FABRIC WEIGHT PREDICTIONS USING "PROKNIT"  
A NEWLY DEVELOPED SOFTWARE

Efthymios GRAVAS, Paul KIEKENS, Lieva Van LANGENHOVE  
 Gent University, Department of Textiles, Zwijnaarde, Belgium

 ПРЕДВИЖДАНЕ НА ПЛОЩНАТА МАСА НА ПЛЕТИВАТА  
 ЧРЕЗ НЕОТДАВНА РАЗРАБОТЕНАТА СОФТУЕРНА  
 ПРОГРАМА "PROKNIT"

Е. ГРАВАС,  
 П. КИКЕНС, Л. ЛАНГЕНХОВЕ Университет Гент, Белгия

## STUDIES ON SOME PATTERN DESIGNS FOR GARMENT MADE OF KNITTED FABRICS

Hristo PETROV, Radka ATANASOVA  
 Technical University – Sofia, Bulgaria

ИЗСЛЕДВАНЕ ВЪРХУ НЯКОИ КОНСТРУКЦИИ  
ОБЛЕКЛО ОТ ПЛЕТЕНИ ПЛАТОВЕ

ХР. ПЕТРОВ, Р. АТАНАСОВА  
 Технически Университет - София България

 UNTERSUCHUNG EINIGEN SCHNITTKONSTRUKTIONEN  
 FÜR BEKLEIDUNG AUS STRICKWAREN

Н. PETROV, R. ATANASOVA, Bulgaria

ANALYSE THE STATE OF STRETCH WEAR WITH ELASTIC FILAMENTS BY CHANGE THE ROUND SIZES  
OF ELLIPTICAL INTERSECTION

Magdalena PAVLOVA, Peter HADJIDOBREV, Gani STAMOV  
 College Sliven, TU – Sofia, Bulgaria

 АНАЛИЗ НА СЪСТОЯНИЕТО НА ВИСОКОЕЛАСТИЧНО  
 ОБЛЕКЛО С ЕЛАСТОМЕРНИ НИШКИ ПРИ ПРОМЯНА  
 НА ОБИКОВНИТЕ РАЗМЕРИ НА ЕЛИПТИЧНО СЕЧЕНИЕ

М. ПАВЛОВА, Г. СТАМОВ, П. ХАДЖИДОБРЕВ  
 Колеж Сливен, ТУ-София, България

ANALYSE DES ZUSTANDES DER HOCHELASTISCHEN KLEIDUNG MIT ELASTOMEREN FADEN BEI DER VERAENDERUNG DER UMFAENGE DER MASSE DES ELYPTISCHEN SCHNITTES  
M. PAVLOVA, P. HADJIDOBREV, G. STAMOV, Bulgaria

ADVANCED FASHION OF KNITWEAR  
Penka DIMITROVA-POPSKA  
Faculty of Humanities and Design, Technical University – Sofia, Bulgaria

АВАНГАРДНАТА МОДА В ТРИКОТАЖНОТО ОБЛЕКЛО  
Пенка ДИМИТРОВА-ПОПСКА  
Технически университет – София Катедра "Хуманитарни науки и дизайн"

AVANTGARDISTISCHE MODE AUS STRICKSTOFFE , P.DIMITROVA-POPSKA, Bulgaria

## **XLIV. International Congress 23.-27.9.2008 in Sankt Petersburg/Russia**

Präsident/President: Prof. Valery Agapov

Teilnehmer/participants: 60 aus/from 14 Ländern/countries

### **Vorträge/Papers:**

#### **Education**

##### **Russian-German Links in Textile Education**

V. Agapov, St. Petersburg State University of Technology and Design (Russia)

##### **THE INTERNATIONAL FEDERATION OF KNITTING TECHNOLOGISTS AT HALF CENTURY**

A. Dodu, W. Schaech, D. Dan, M. Blaga

##### **The Peculiarities of Knitting Technology Specialists Training on the Basis of the KNUTD**

L. Krylova, Kiev National University of Technologies and Design (Ukraine)

##### **Innovation, multimedial E-learning for textile industry – ETex**

I. Lenfeldová, R. Kovář, M. Syrovátková, Technical University of Liberec (Czech Republic)

##### **250 Years of Machine Knitting in St. Petersburg**

A. Truevtsev, St. Petersburg State University of Technology and Design (Russia)

##### **The Academic Strategy in Knitting Education at SUTD**

L. Rovinskaya, St. Petersburg State University of Technology and Design (Russia)

##### **„Knitting International“ – The journal of Knitters all around the world**

M. Curtis, Editor Knitting International – Press (UK)

#### **Technical Knits**

##### **Innovative Knitted Products for Geotechnical Application**

M. Seeger, R. Helbig, R. Arnold, U. Hermann, Saxon Textile Research Institute Chemnitz (Germany)

##### **High-modulus threads: properties peculiarities and specificity of processing to textile structures and polymeric composites**

K. Perepelkin, M. Ivanov, St. Petersburg State University of Technology and Design (Russia)

##### **Geotextile Biaxial Tricot Materials in Road Reinforcement**

A. Baranov, A. Deviatilov, St. Petersburg State University of Technology and Design, "Megateh" Ltd (Russia)



**An investigation of the mechanical properties of the weft-knitted fabrics made of high-modulus aramid yarn**

O. Stolyarov, A. Truevtsev, St. Petersburg State University of Technology and Design (Russia)

**3D-Design of Technical Knits**

B. Stroganov

**Properties of the knitted nets for fruit and vegetable protection against hail**

Z. Vrljicak, University of Zagreb (Croatia)

**Problems of the Technical Integration Knitting Manufacture on Double Needle Bar Circular Knitting Machine**

L. Galavska, Kiev National University of Technologies and Design (Ukraine)

**Design and Structure of Warp Knit Auxetic Fabrics**

S.C.Ugbolue, Y.K.Kim, S.B.Warner, Q.Fan, Chen-Lu Yang, O.Kyzymchuk, Y.Feng, University of Massachusetts Dartmouth, Advanced Technology and Manufacturing Center (USA), Kiev National University of Technologies and Design (Ukraine)

**The Manufacturing of Warp-knitted Reinforcement Nets of Short-fibre Flax Yarn**

G. Bashkova, Ivanovo State Textile Academy (Russia)

**Medical Knits**

**Achievements and perspectives in the field of invasive and non-invasive medical devices made of textile materials**

E. Visilianu, A. Dodu, Pop D. Popa, Academy of Technical Sciences of Romania, Academy of Medical Sciences of Romania, Society of Textile Engineers of Romania, Romanian Academy (Romania)

**COMPRESSIVE KNITTED ITEMS FOR TREATMENT OF CHRONIC VENOUS INSUFFICIENCY AND LYMPHOSTASIS**

B.S. Oks, A.B. Oks, Riga Technical University (Latvia)

**NUMERICAL INVESTIGATION ON THE INTERACTION BETWEEN THE CIRCULAR KNITTED SOFT SHELLS AND THE SOLIDS**

P. Dyatlova, St. Petersburg State University of Technology and Design (Russia)

**Tensile and stress relaxation behaviour of the high-stretch weft-knitted fabrics containing elastomeric yarns**

S. Polyakova, A. Truevtsev, O. Stolyarov, St. Petersburg State University of Technology and Design "Beacon" Ltd (Russia)

**The Development and Manufacturing of Polymeric Endoprosthetic Meshes for the Surgery of Soft Tissues**

V. Jukovsky, T. Philipenko

**Properties of yarn and knits**

**Structure, Physical and Mechanical Properties of Missed Jacquard Knits**

N. Bukhonka, Kiev National University of Technologies and Design (Ukraine)

**Study on arcing deformation of weft knitted fabrics**

M. Ursache, D. Dan, Technical University „Gh.Asachi“ of Iasi (Romania)

**ATLAS LAPPING INFLUENCE OF THE FABRIC EXTENSIBILITY**

I. Lenfeldová, M. Syrovátková, Technical University of Liberec (Czech Republic)

**Developing the Multifunctional Underwear Goods in front of Requirements for Protective Garments**

E. Mielicka, J. Janicka, A. Pinar, Textile Institute Lodz (Poland)

**Distribution of Elastic-plastic Components of Yarn during its Bending**

V. Krutikova, T. Moskaeva, M. Lauchinskas, Kostroma State Technological University (Russia)

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**ERGONOMIC AND BIOPHYSICAL REQUIREMENTS FOR DISABLED PERSONS CLOTHING**

W. Sybilska, L. Napieralska, E. Mielicka, Textile Institute Lodz (Poland)

**Imitational Simulation of Knitting Process**

V. Krutikova

**Influence of weft knitted structure on fabric elasticity**

R. Kovar, J. Spaknova, Technical University of Liberec (Czech Republic)

**A New Approach to Modelling the Time-dependent Mechanical Behavior of Textile Yarns**

A.G. Makarov, A.V. Demidov, N.V. Drobotun, N.G. Rostovtseva and O.B. Terushkina

**RESEARCH OF PAN YARN COMPLEX CHARACTERISTICS USED FOR NAPPED HOSIERY GOODS MANUFACTURING**

S. Veselova, Yu. Vetrova, N. Truevtsev, V. Shishlov, St. Petersburg State University of Technology and Design (Russia)

**Knitting Technology****Hermite Splines for Knit Structures Geometrical Modeling**

A. Diordiev, O. Diordiev, C. Budulan

**Investigations on Yarn Tensions during Stitch Formation**

M. Weber, V. Kapralov, A. Tillmanns, Niederrhein University Mönchengladbach (Germany), Ivanovo State Textile Academy (Russia)

**Modeling of knitting process on warp-knitting machines**

Z. Mikołajczyk, Technical University of Lodz (Poland)

**PHOTOMETRIC METHOD FOR GEOMETRIC PARAMETERS EXTRACTION FROM KNITTING FABRICS**

O. Diordiev, A. Diordiev, I. Balan, C. Budulan

**3D APPLICATIONS PRODUCED ON KNITTED FABRICS**

M. Blaga, M. Penciu, Technical University „Gh.Asachi“ of Iasi (Romania)

**EFFECT OF LAUNDERING ON THE STRUCTURAL AND DIMENSIONAL BEHAVIOR OF CORE SPUN COTTON/SPANDEX INTERLOCK STRUCTURES**

C. N. Herath, B. C. Kang, and S. W. Park, Inha University (Korea)

**KNITTED GLOVES AS ACCESORIES**

M. Penciu, M. Blaga, D. Dan, Technical University „Gh.Asachi“ of Iasi (Romania)

**TUBULAR KNITTED FABRICS WITH VARIOUS STRUCTURES MANUFACTURED WITH FLAT KNITTING MACHINES**

C. Comandar, M. Cretu, F. Filipescu, Technical University „Gh.Asachi“ of Iasi (Romania)

**Virtual reality interface for simulation of the Shima Seiki knitting machine mechanisms**

D. Dan, M. Ursache, M. Blaga, Technical University „Gh.Asachi“ of Iasi (Romania)

**WEFT KNITTED FABRIC WITH NEW EFFECTS**

C. Comandar, L. Ciobanu, C-A Babii, Technical University „Gh.Asachi“ of Iasi (Romania)

**Yarn strength utilization in knitted fabric**

R. Kovar, I. Lenfeldova, P. Vintrova, Technical University of Liberec (Czech Republic)

**Study of interference of design and knitting technology through statistical analysis of survey**

V.M. Potocic Matkovic, A. Pavko Cuden, M. Srdjak, University of Zagreb (Croatia), University of Ljubljana (Slovenia)

**The Development of Weft-knitted Structures**

L. Morozova, Moscow State University of Tourism and Service (Russia)

**The Formalized Methods of Designing the Structure and Calculation the Dimensional Parameters of Knitted Fabrics**

G. Bronz

**The Knittability of Blended Flax-consisting Yarn in Manufacture of Basic Complex Weft-knitted Structures**

E. Kyzymchuk, Kiev National University of Technologies and Design (Ukraine)

**THE ROLE OF FABRIC PARAMETERS IN THE ACHIEVEMENT OF THERMOPHYSIOLOGICAL COMFORT**

I. Salopek, Z. Skenderi, M. Srdjak, University of Zagreb (Croatia)

**Use of Complex Combined Threads in Knitting Technology**

N. Ostapenko, N. Orlova, Moscow State University of Tourism and Service, Central Cotton Institute (Russia)

**XLV. International Congress 26. – 29.5.2010 in Ljubljana/Slovenia**

This Congress was combined with  
41th International Symposium on Novelties in Textiles  
5<sup>th</sup> International Symposium on Novelties in Graphics

**45<sup>th</sup> International Congress of the International Federation of Knitting Technologists**

Präsident/President: Mrs. Alenka Pavko Čuden, Ph.D.

Teilnehmer/participants: 60 aus/from 16 Ländern/countries

**Vorträge / Papers:**

**Plenary Lecture**

**HISTORY OF THE KNITTING INDUSTRY IN SLOVENIA**

Estera Cerar, Technical Museum of Slovenia, Ljubljana, Slovenia

**Knitting Management**

**THE PRESENT & PROSPECT OF KOREAN KNITTING INDUSTRY**

Shin-Woong Park (1, 2) Sokrae Kim (2)  
(1) Korea High Tech Textile Research Center, Yanju, Korea  
(2) INHA University, Incheon, Korea

**LEADERSHIP TRAINING IN JOB SIMULATIONS AT NIEDERRHEIN UNIVERSITY, GERMANY**

M.O.Weber, Niederrhein University of Applied Sciences, Mönchengladbach, Germany

**LOGISTIC COMPLECITY ON FULL YINTEGRATED PRODUCTION OF SOCKS AND TIGHTS IN PERSPECTIVE BY ENTERPRISE - SOFTWARE**

E. Dörner, DOKU Textile Software, Inning am Ammersee, Germany

**Knitted structures, modelling**

**3D MODELLING OF WARP KNITTED STRUCTURES - FROM GEOMETRICAL TO MORE REALISTIC MECHANICAL MODELS**

Wilfried Renkens (1) Yordan Kyoshev (2) Marcel Beiss (2)  
(1) Renkens Consulting, Germany  
(2) Niederrhein University of Applied Sciences, Mönchengladbach, Germany

### **3D MODELS OF WEFT- KNITTED STRUCTURES IN DESIGNING AND CONTROLLING QUALITY**

Tatiana Ielina, Svetlana Bobrova, Kyiv National University of Technologies and Design, Ukraine

### **Properties, quality and testing of knitted fabrics**

#### **CRIMP OF THE YARN IN WEFT KNITTED FABRIC**

R. Kovař, Technical University of Liberec, Liberec, Czech Republic

#### **INFLUENCE OF LATERAL CONTRACTION ON TENSILE PROPERTIES OF KNITTED FABRICS**

R. Kovař, Technical University of Liberec, Liberec, Czech Republic

#### **LIGHT BARRIER PROPERTIES OF DECORATIVE KNITTED FABRICS**

Z. Mikołajczyk, J. Szmyt, K. Piekłak, Technical University of Lodz, Lodz, Poland

#### **THE ABRASION RESISTANCE OF COMPRESSION STOCKINGS**

N. Oglakcioglu, A. Marmarali, Ege University, Department of Textile Engineering, Izmir, Turkey

#### **CONSISTENCY BETWEEN PHYSIOLOGICAL INDICES AND SUBJECTIVE ASSESMENT OF COMFORT**

I. Salopek Čubrić, Z. Skenderi, Z. Vrljićak, University of Zagreb, Faculty of Textile Technology, Zagreb, Croatia

#### **CONTINUOUS IMPROVEMENT OF SUBJECTIVE TEST USING EXPERIMENTAL DESIGN**

Z. Koczor, V. Göndör, T. Gregász, M. Pataki, Budapest-Tech, RKK, Budapest, Hungary

#### **DRY AND WET RELAXATION OF FABRICS KNITTED FROM CONDUCTIVE FIBER YARNS**

M. O. Weber, A. Tillmanns, F. Heimlich, A. Brücken  
Niederrhein University of Applied Sciences, Mönchengladbach, Germany

#### **DETECTION OF DEFECTS IN KNITTED FABRICS**

M. Blaga (1), M. Penciu (1), D. M. Dobrea (2)

(1) Gheorghe Asachi Technical University, Faculty of Textiles, Leather and Industrial Management, Iasi, Romania

(2) Gheorghe Asachi Technical University, Faculty of Electronics and Telecommunications, Iasi, Romania

### **Knitted structures**

#### **THE STRUCTURAL PROPERTIES OF WARP KNIT AUXETIC FABRICS**

S. C. Ugbohue (1), O. Kyzymchuk (2), Yong K. Kim (1), Steven B. Warner (1), Qinguo Fan, Chen.Lu Yang (1), Yani Feng (1) John Lord (1)

(1) University of Massachusetts, Department of Materials and Textiles, Dartmouth, MA, USA

(1) The Kyiv National University of Technologies and Design, Kyiv, Ukraine

#### **INNOVATIVE STRUCTURES AND TECHNOLOGY OF SPATIAL WARP-KNITTED FABRICS**

Z. Mikołajczyk, K. Piekłak, Technical University of Lodz, Department of Knitting Technology and Structure of Knitted Products, Lodz, Poland

#### **MANUFACTURING OF 3D COMPLEX KNITTED SHAPES**

M. Penciu, M. Blaga, C.D. Radu, Gheorghe Asachi Technical University, Faculty of Textiles, Leather and Industrial Management, Iasi, Romania

#### **STRUCTURE DIVERSIFICATION ON FLAT KNITTING MACHINES BY USING TWISTED STITCHES**

M. Penciu, M. Ursache

Gheorghe Asachi Technical University of Iasi, Iasi, Romania

## **NORMALIZATION OF PROCESS OF KNITTING WEFT DOUBLE-LAYER KNIT ON TWO NEEDLE BED CIRCULAR MACHINE**

N. Motovilovets, L. Galavska

The Kyiv National University of Technologies and Design, Kyiv, Ukraine

### **Knitted technical textiles**

#### **TECHNICAL TEXTILES: FIT FOR THE PURPOSE – FIT FOR THE FUTURE**

Monika Seeger, Reinhard Helbig, Rolf Arnold, Ulrich Herrmann und Elke Thiele

Saxon Textile Research Institute e.V. Technical University Chemnitz, Germany

#### **APPLICATION OF KNITTED FABRICS IN TECHNICAL AND MEDICAL TEXTILES**

K. Lazar, Hungarian Society of Textile Technology and Science, Budapest, Hungary

#### **PARAMETRIC DESIGN OF KNITTED STRUCTURES AND THEIR ARCHITECTURAL POTENTIAL**

E. Sheffer, A. Karmon, Shenkar College of Engineering and Design, Ramat Gan, Israel

#### **PRODUCTION OF CIRCULAR KNITTED FABRICS FOR THE SANATION OF OLD ROCKY BUILDINGS**

Z. Vrljicak, I. Salopek Čubrić, University of Zagreb, Faculty of Textile Technology, Zagreb, Croatia

#### **THE COMPOSITE MATERIALS BASED ON KNITTED STRUCTURES WITH SPECIAL PROPERTIES**

E. Mielicka, J. Janicka, T. Massalska-Lipinska, A. Pinnar, Textile Research Institute, Lodz, Poland

### **Education, Design**

#### **THE KNITTING MODULE AS A PART OF THE eLiTA PROJECT**

Z. Stjepanovič (1), A. Pavko-Čuden (2)

(1) University of Maribor, Department of Textile Materials and Design, Maribor, Slovenia

(2) University of Ljubljana, Department of Textiles, Ljubljana, Slovenia

#### **KNITTING DESIGN IN HIGHER EDUCATION IN TURKEY**

B. Tavman, Marmara University, Fine Arts Faculty, Istanbul, Turkey

#### **FINE POLYAMIDE KNITWEAR**

M. Jenlo, E. Fajit, M. Gorenšek

University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Textiles, Ljubljana, Slovenia

#### **A KNITTED OBJECT**

Ataphol Sujirapinyokul, University of Borås, The Swedish School of Textiles, Borås

#### **IFKT CONFERENCE 2010**

Mrs. Mirela Blaga Ph.D. Gheorghe Asachi Technical University, Faculty of Textiles, Leather and Industrial Management, Iasi, Romania

### **Poster Präsentationen / Poster Presentations:**

#### **INFORMATION STRATEGIES FOR OPTIMIZATION OF KNITTED COMPOSITES**

Z. Koczor, K. Németh-Erdödi, Z. Kertész, P. Szenczi

Óbuda University (Budapest Tech Politechnical Institution) Budapest, Hungary

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**STRAIN ANALYSIS OF RECTANGULAR MESH-STRUCTURED FILTERS**

E. Polyakova, V. Chaikin, V. Lutov

Saint-Petersburg State University of Technology and Design, Saint-Petersburg, Russia

**PROBLEMS OF INTERACTION BETWEEN THE CIRCULAR KNITTED SOFT SHELLS AND THE SOLIDS**

P. Dyatlova, A. Mayorov, V. Korovkin

Saint-Petersburg State University of Technology and Design, Saint-Petersburg, Russia

**INFLUENCE OF AN ORDER OF ALTERNATION OF CONNECTING ELEMENTS ON QUALITATIVE CHARACTERISTICS WEFT DOUBLE-LAYER KNIT**

L. Galavska, S. Bobrova

The Kyiv National University of Technologies and Design, Kyiv, Ukraine

**PARAMETERS OF WEFT KNITTED STRUCTURES MADE FROM ELASTOMERIC CORE-SPUN YARNS**

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**THERMAL COMFORT PROPERTIES OF WEFT KNITTED SPACER FABRICS**

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**DISTANCE KNITTED FABRICS PRESSING PROCESS IDENTIFICATION**

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**FUNCTIONAL CONSTRUCTIONS OF SPECIAL CLOTHING FOR DISABLED PERSONS**

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**EXPERIMENTAL STUDIES OF THE MAIN CHARACTERISTICS OF SINGLE-JERSEY WEFT JACQUARD STRUCTURE**

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**UV PROTECTION PROPERTIES OF HEMP BASED KNITTED FABRICS**

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**EFFECT OF FINISHING AND ANTIMICROBIAL TREATMENTS ON DIMENSIONAL PROPERTIES OF COTTON WEFT KNITTED FABRICS**

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**IMPROVEMENTS REALIZED USING SELF-EVALUATION BASED ON QUALITY AWARD IN HIGHER EDUCATION**

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**ASSESSMENT OF LEARNING OUTCOMES BY INTERACTIVE TESTS IN KNITTING TECHNOLOGY**

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**HISTORICAL KNITWEAR OF ZAGREB MUSEUMS**

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**SELF ACTUATING TEXTILE SENSOR**

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**STUDY ABOUT ARAMID KNITTED GLOVES WITH IMPROVED DEXTERITY**

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**CIRCULAR KNITTED FABRIC “GUARD” WITH INTERNAL METAL FIBER FOR PROTECTION AGAINST ELECTROMAGNETIC FIELDS**

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