

28TH INTERNATIONAL VOCATIONAL TRAINING
COMPETITION - O S A K A, JAPON, 1985



*REPORT
BERICHT
INFORME
RAPPORT*

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technical committee report

At: OSAKA, Japan

Date: from 22nd to 24th October, 1985

Sites:

- Kansai Skill Development Center
- Higashi-Yodogawa Advanced Vocational Training College
- Matsushita Education and Training Center
- Japan Professional Cooking College

Organisation: The Japanese Organising Committee was composed as follows:

Messrs	Shigeichi KOGA	president
	Ryozaburo KAWAHARA	vice-president
	Toshihiko YAMASHITA	"
	Masao KAMEI	"
	Yoshisato MAEDA	"
	Hideo ABE	"
	Hideo SEKI	"
	Koji ISHII	secretary-general
	Shigenobu MIYAMORI	director

It was not an easy task to host and organise an event of international dimensions in four competition sites spread over the city of Osaka. Timely and thorough preparation enabled the Japanese Organising Committee to meet this challenge and its efforts were crowned with success. All participants were impressed by the dynamic commitment of Messrs. Ishii and Miyamori, assisted by Mr. Mori, technical delegate. The competent liaison work between the people in charge of different sectors and the international organisation carried out by Mr. Eda, official delegate, greatly facilitated the smooth coordination of all activities.

Technical equipment: All equipment, machines and tools provided were of a high technical standard, thereby ensuring an efficiently run competition. The spirit of cooperation which reigned in the workshops was particularly appreciated by the international juries, as also the excellent technical assistance rendered by the workshop masters and their assistants.

Demonstration trades: Two trade demonstrations took place in Osaka:

- CNC Turning
- CNC EDM'ing

Duration 20 hours, extremely well prepared and documented.

Technological evolution will inevitably lead to the gradual disappearance of conventional turning in favour of CNC turning. As this trade is a very mature one involving practically all countries, even those which do not yet have full access to the industrial era, this development will affect IVTC. It is practically certain that the consequences will be felt in this trade area.

As far as the practical aspects of CNC Turning in IVTC are concerned, the problem of the great diversity of existing machines can be solved if the host country specifies sufficiently early what type of machine will be provided for a given competition.

On the basis of the trade descriptions drawn up by Japan, the technical committee will decide at its next meeting whether it is in favour of the admission of these two new trades or not. The possible acceptance thereof will once and for all open the way for the new technologies in IVTC, which only goes to confirm present-day realities in industry, a fact which can no longer be ignored in vocational training.

Besides the abovementioned trade demonstrations, the Japanese Organising Committee also organised a demonstration of CNC-machining, a trade area allied to milling (also subject to evolution), which in itself already contains the embryo of a new trade.

New
trades:

Three "first timers" were included in the Osaka competition :

- Metal roofing
- Waiting
- Graphic arts

Judging by the interest shown by observers and the general public, participation in these new trades will no doubt be more encouraging in future.

Changes in
procedure:

- computerisation: the Osaka competition marked the introduction of data processing in IVTC. It was in fact the first time that the results were processed by computer, in a small computer centre organised by the Japanese Organising Committee at the request of the technical committee. This modern equipment allowed the results to be processed and published in record time, whilst eliminating possible errors in calculation.
- standard scores : parallel to the introduction of computers, the technical committee decision taken at Amsterdam, i.e. to convert to standard scores, was applied in Osaka. This system allows results to be standardised to a comparable scale (between 400 and 600 points), by means of a mathematical formula (see page 40).
- diplomas : another technical committee decision was put into practice in Osaka : the awarding of **skill proficiency diplomas**, with distinction "excellent" or "very good" (see page 10). These new diplomas replaced the "mentions of honour" and "diplomas of merit" awarded up to now.
- test trades: in accordance with a technical committee decision, an improved system of standard score calculation was tested in Osaka, in trades Nos. 5, 29 and 30, under the responsibility of Mr. Beuk, technical delegate NL. This system allowed compatriot judging as well as differences of more than 2 points on the 0 - 10 scale, normally used for subjective criteria. Detailed analysis and evaluation of these results will be undertaken by Mr. Beuk. The technical committee will take a decision on this issue at its next meeting.

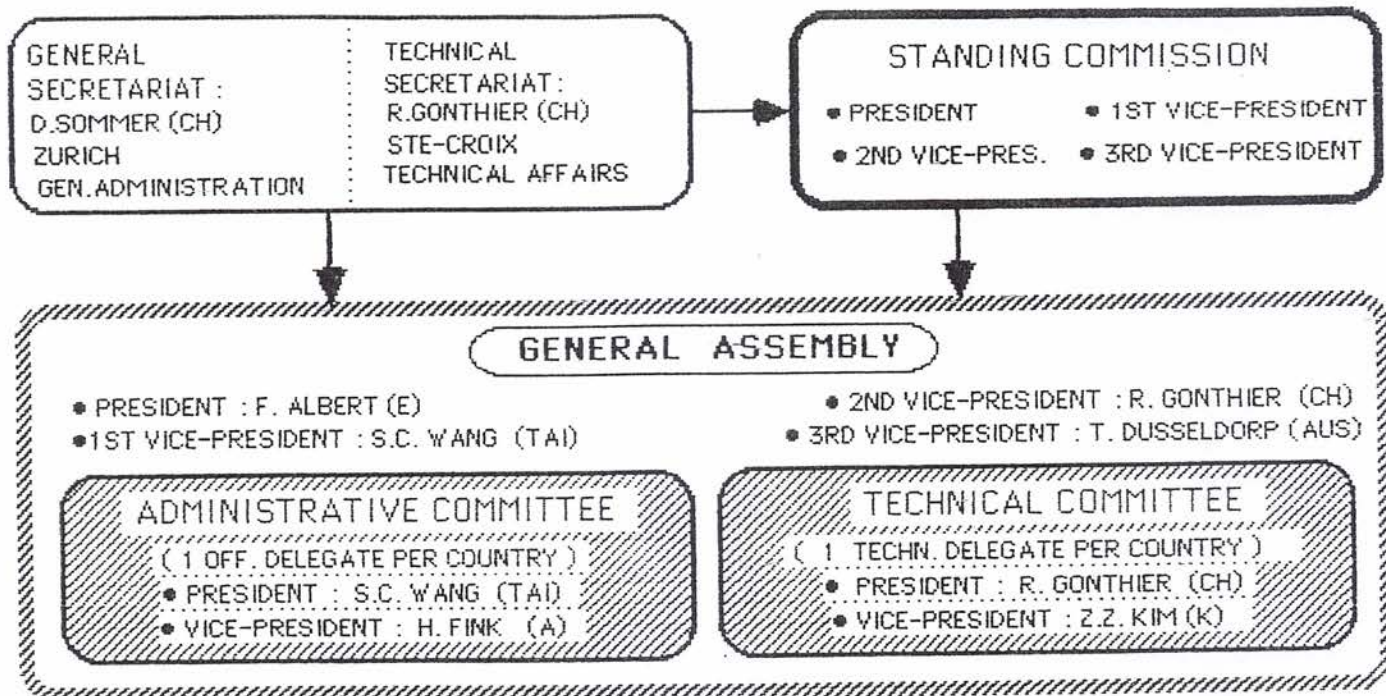
Trade
descriptions:

Once again, there was not enough time to update and thoroughly check the existing trade descriptions in Osaka. Modifications in about 8 trades reached the technical committee office, a negligible proportion of the overall volume of revision work to be carried out. The technical committee will therefore have to consider alternative ways of fulfilling this important task.

IVTC
organigrammes:

Few structural changes occurred in IVTC organisation since the previous competition, as can be seen from the following organigramme:

INTERNATIONAL ORGANISATION FOR THE PROMOTION OF VOCATIONAL TRAINING AND THE INTERNATIONAL YOUTH SKILL OLYMPICS



Conclusion:

Many aspects of the competition were subjected to modification, be it procedures, trades or the juries, where many new young experts were welcomed. These have given renewed proof that IVTC is very much alive and, even though in the evolutionary process, reflects life such as it is experienced on an international level by young craftspeople.

This state of affairs augurs well for the 29th IVTC in Australia.

Acknowledgments:

It is unfortunately not possible to express personal thanks in this report to all those who gave of their best to ensure a successful 28th IVTC in Osaka. The sum of deserving efforts and personal sacrifices can never be measured. The latter, however, have directly contributed towards making this competition an excellent one.

To each and everyone, our heartfelt thanks. A special word of thanks goes to president Albert, to secretary-general Sommer and to the feminine element of the general secretariat, including the interpreters. A final token of appreciation also to my colleagues and technical delegates for their fine commitment and cooperation, and last but not least, vice-chairman of the technical committee Kim.

René Gonthier
chairman technical committee

PARTICIPATING COUNTRIES
 TEILNEHMERLAENDER
 PAISES PARTICIPANTES
 PAYS PARTICIPANTS

A	AUSTRIA	OESTERREICH	AUSTRIA	AUTRICHE
AUS	AUSTRALIA	AUSTRALEIN	AUSTRALIA	AUSTRALIE
BDA	BERMUDA	BERMUDA	BERMUDA	BERMUDES
BR	BRAZIL	BRASILIEN	BRASIL	BRESIL
CH	SWITZERLAND	SCHWEIZ	SUIZA	SUISSE
D	GERMANY	DEUTSCHLAND	ALEMANIA	ALLEMAGNE
E	SPAIN	SPANIEN	ESPAÑA	ESPAGNE
EIR	IRELAND	IRLAND	IRLANDA	IRLANDE
F	FRANCE	FRANKREICH	FRANCIA	FRANCE
FL	LIECHTENSTEIN	LEICHTENSTEIN	LIECHTENSTEIN	LIECHTENSTEIN
GB	UNITED KINGDOM	GROSSBRITANNIEN	REINO UNIDO	GRANDE BRETAGNE
J	JAPAN	JAPAN	JAPON	JAPON
K	KOREA	KOREA	KOREA	COREE
M	MACAU	MACAU	MACAO	MACAO
NL	HOLLAND	HOLLAND	HOLANDA	HOLLANDE
P	PORTUGAL	PORTUGAL	PORTUGAL	PORTUGAL
TAI	TAIWAN	TAIWAN	TAIWAN	TAIWAN
USA	UNITED STATES OF AMERICA	VEREINIGTE STAATEN	ESTADOS UNIDOS DE AMERICA	ETATS UNIS D'AMERIQUE

NON-PARTICIPATING MEMBER COUNTRIES
 NICHT TEILNEHMENDE MITGLIEDSLAENDER
 PAISES NON PARTICIPANTES
 PAYS NON-PARTICIPANTS

L	LUXEMBURG	LUXEMBURG	LUXEMBURG	LUXEMBURG
NZ	NEW ZEALAND	NEUSEELAND	NUEVA ZELANDA	NUEVEVE ZELANDE

NO	DIE WETTBEWERBSBERUFE	COMPETITION TRADES	LAS ESPECIALIDADES DEL CONCURSO	LES METIERS AU CONCOURS
1	Maschinenschlosser	Fitting	Ajuste	Ajustage
2	Werkzeugmacher	Press tool making	Matrickería	Outilsage
3	Feinmechaniker	Instrument making	Mecánica de precisión	Mécanique de précision
4	Uhrmacher	Watch making	Relojería	Horlogerie
5	Technischer Zeichner	Engineering drawing	Delineación	Dessin industriel
6	Dreher	Turning	Torno	Tournage
7	Fräser	Milling	Fresa	Fraisage
8	Stahlbauschlosser	Constructional steel work	Construcciones metálicas	Construction métallique
9	Autogenschweißer	Gas welding	Soldadura oxiacetilénica	Soudage oxy-acétylénique
10	Elektroschweißer	Electric welding	Soldadura eléctrica	Soudage électrique
11	Modellschreiner	Wood pattern making	Modelos de fundición	Modelage s/bois, Fonderie
12	Bauspengler	Metal roofing	Techoar	Couvreur
13	Karosseriespengler	Panel beating	Chapistería	Tôlerie / Carrosserie
14	Blechslosser	Sheet metal work	Calderería	Chaudronnerie
15	Sanitärinstallateur	Plumbing	Fontanería	Installation sanitaire
16	Industrie-elektroniker	Industrial electronics	Electrónica industrial	Electronique industrielle
17	Radio-und Fernsehtechniker	Radio & TV repairs	Reparación de Radio y TV	Réparation Radio & TV
18	Elektro-installateur	House wiring	Instalación de la construcción	Installation électrique
19	Starkstromelektriker	Industrial wiring	Electromontaje	Installation électrique-courant fort
20	Maurer	Bricklaying	Albañilería	Maçonnerie
21	Steinmetz	Stone masonry	Talla en piedra	Taillage de pierre
22	Maler	Painting	Pintura	Peinture
23	Stukkateur	Plaster work	Estuco	Plâtrerie
24	Möbelschreiner	Cabinet making	Ebanistería	Ebénisterie
25	Bauschreiner	Joinery	Carpintería de construcción	Menuiserie
26	Zimmermann	Carpentry	Carpintería de armar	Charpenterie
27	Goldschmied	Jewellery	Joyería	Bijouterie / Joaillerie
28	Herrenschneider	Men's Tailoring	Sastrería	Tailleur Hommes
29	Damenfriseur	Ladies' Hairdressing	Peluquería de señoras	Coiffure Dames
30	Herrenfriseur	Men's Hairdressing	Peluquería de caballeros	Coiffure Hommes
31	Damenschneider	Ladies' Dressmaking	Modistería	Couture Dames
32				
33	Automechaniker	Automobile mechanics	Mecánica de automóvil	Mécanique automobile
34	Koch	Cookery	Cocina	Cuisine
35	Kellner	Waiting	Camarero	Sommellerie
36	Graphisches Gewerbe	Graphic arts	Artes gráficas	Arts graphiques
37				



INTERNATIONAL VOCATIONAL TRAINING COMPETITIONS
INTERNATIONALE BERUFSWETTBEWERBE
CONCOURS INTERNATIONAUX DE FORMATION PROFESSIONNELLE
CONCURSOS INTERNACIONALES DE FORMACION PROFESIONAL

28th IVTC - Osaka 1985

COMPETITORS AND EXPERTS



CONCOURS INTERNATIONAUX DE FORMATION PROFESSIONNELLE

CONCURSOS INTERNACIONALES DE FORMACION PROFESIONAL

																																				TOTAL				
trade →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	29	30	31	33	34	35	36	C	E	OC			
country ↓	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E	C	E				
A	X	O	X	O			X	X		X	X	O	X	X			X				X	X		X	X	O	X	X	O	X	X		X	O	X		20	7		
AUS	X	O	X	Δ		X	Δ	X	Δ	Δ	X	Δ		O	X	O	X	Δ		Δ	Δ	X	O	X	Δ		X	Δ	Δ	X	O	X	O	X	O		18	10	13	
BDA																X																	X	X		3				
BR	X					X	O	X		X																										4	1			
CH	X	X	X	O	X	O	X	O	X	X		X	X	O	X	O	X	X	X	X	O	X	O	X		X	O	X	X		X		X	O	X	O	X	24	13	
D	X	O	X	O	X		X	O	X	X	X	O	X	O	X	X	X	O	X	O	X	X	X	O	X	O	X	X		X	X	O		X	O		30	17		
																X	X												X		O		X			4	1			
FI	X	X							X	O	X				X				X	X	O	X		X		X	O					X	O			11	4			
				X				X				X	O	X	O	X	X			X	X		X	O	X	X	X	O	X	O		X	O	X	O	15	7			
II			X	O		X	O		X									X	O	X			X						X		X	X		X		10	3			
(II)	X	X	O			X	X	O		X	O	X		X	X	O	X	X		X	X	O	X	X	X	X	X	O	X	O	X	O	X	O	X	24	12			
J	X	Δ	X	Δ	X	O	X	O	X	O	X	O	Δ	X	Δ	X	Δ	X	O	X	O	X	O	X	O	Δ	X	O	Δ	X	O	Δ	X	Δ	X	O	X	34	20	14
K	X	O	X	O	X	X	X	O	X	O	X	O	X	X	X	O	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	O	X	33	16	
M	X					X																										X	X	O		4	1			
NL	X	X	X	O	X	O	X	X	X	O	X	X	O							X	X	X	O	X	X	X	O	X	X	X	O			X	O	X	21	10		
P	X					X	O	X		X	O	X	O		X	O		X		X					X	O							X			10	5			
TAI	X	O	X	X	O	X	X	X	X	O	X	O	X	X	O	X	X	X	X	O	X	O	X	X	X	X	X		X	O	X	X			X	O	28	13		
USA		X				X	X	X	O							X	X	O	X	O	X		X	O			X			X			X	O	X		14	6		
TOTAL C	13	11	7	6	8	13	11	8	5	11	10	5	7	7	10	10	9	9	7	13	9	7	7	12	10	11	7	11	7	8	11	12	10	5	307					
TOTAL E	6	6	5	3	6	5	6	5	4	5	6	4	5	6	4	5	5	4	4	7	3	4	3	6	5	7	6	5	4	4	6	7	7	5	173					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	29	30	31	33	34	35	36						

Legend: X=competitor/O=expert/Δ=oc expert



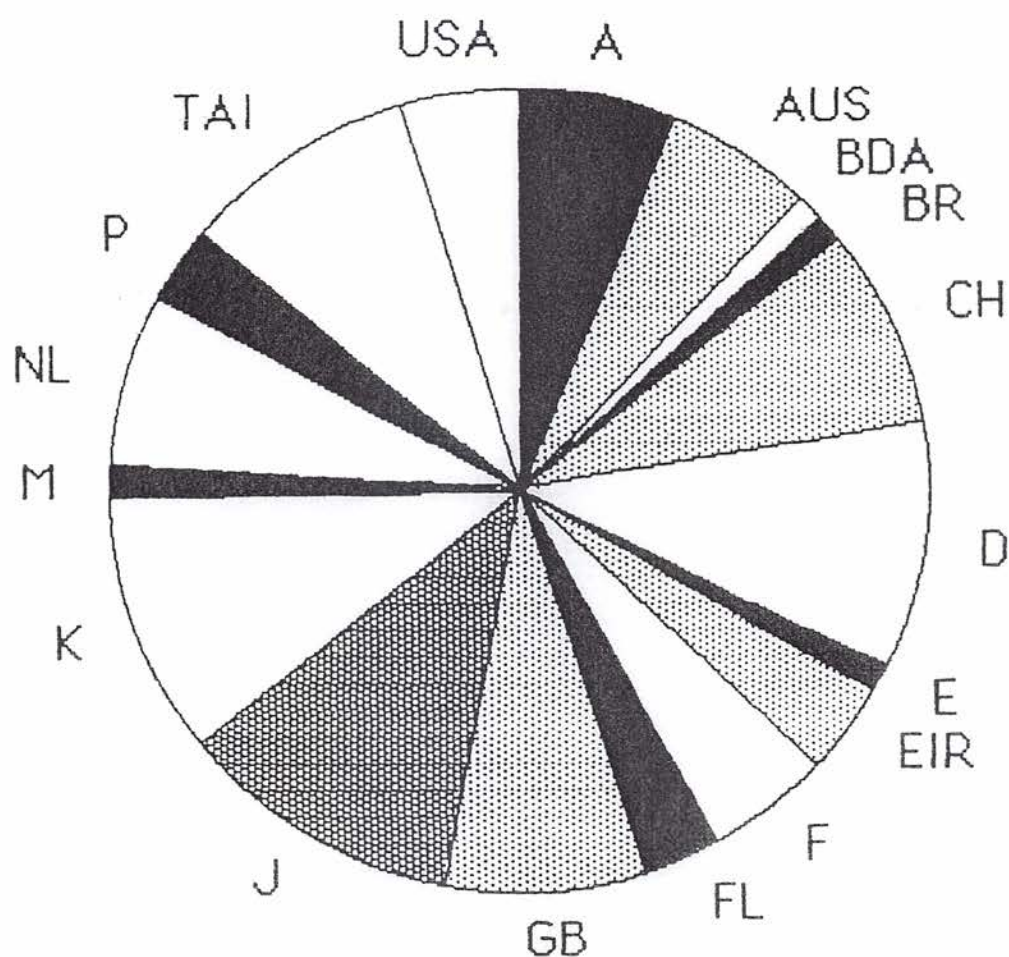
INTERNATIONAL VOCATIONAL TRAINING COMPETITIONS
INTERNATIONALE BERUFSWETTBEWERBE
CONCOURS INTERNATIONAUX DE FORMATION PROFESSIONNELLE
CONCURSOS INTERNACIONALES DE FORMACION PROFESIONAL

28th IVTC - Osaka 1985

FINAL SCORES AND DISTINCTIONS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	29	30	31	33	34	35	36	
A	515	529				521	473			495	514	482	490				476				519	487		515	542	508	507	518	453	529		533	538		A
AUS	499	493			458	511		503		520	519				504	499		511	522	535				487		520	506	521			499	526			AUS
BDA																455																479	434		BDA
BR	473					487	518			458																									BR
CH	504	524	505	529	514	490	472				517	542	484		467	481	491	508	516	521	527			548	506	528			502		550	529	463	CH	
D	535	510	508		502	514	525	468	462	480	513	520	472	513	454	523	499	521	511	507	470	516	543	524	482	479		495	539	534	496	521		D	
E																462	443											435		431					E
EIR	497	499						472	506						503				448	520		494		515		498				519				EIR	
F				470				469			501	457	468	523						505	515		533	498	467	464	490		499		521			F	
FL			477		515			469									513		484				471				503		495	496		517		FL	
GB	469	463				487	466			483	504			473	504	495	473			509	445	472	486	480	504	483	513	548	486	426	507	487	499	GB	
J	538	532	530	540	526	530	530	529	516	533	508	455	536	528	488	560	529	529	537	423	544	455	506	482	461	523	508	482	537	519	545	503	469	492	J
K	535	542	524	464	529	529	531	551	544	527	532		539	534	565	530	536	521	463	524	491	545	509	529	557	549	541	497	476	522	494	465	500	478	K
M	440					414																									465	479			M
NL	479	443	438	517		476	463	488		484	480								501	474	531	453	466	471	440	435	507	519			525	515		NL	
NZ																																			NZ
P	478					504	464			457	420			458				439	452					496					462					P	
TAI	538	493	518	479	513	526	531	525	507	556	494		522	526	517	491	526	506	503	522	514			520	513	509		531	491	507	503		522	TAI	
USA		471			442	513	527								476	503	526	452		496				436			463		509	451		545		USA	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	29	30	31	33	34	35	36	

COMPETITORS PER COUNTRY
 TEILNEHMER PRO LAND
 CONCURSANTES POR PAÍS
 CANDIDATS PAR PAYS

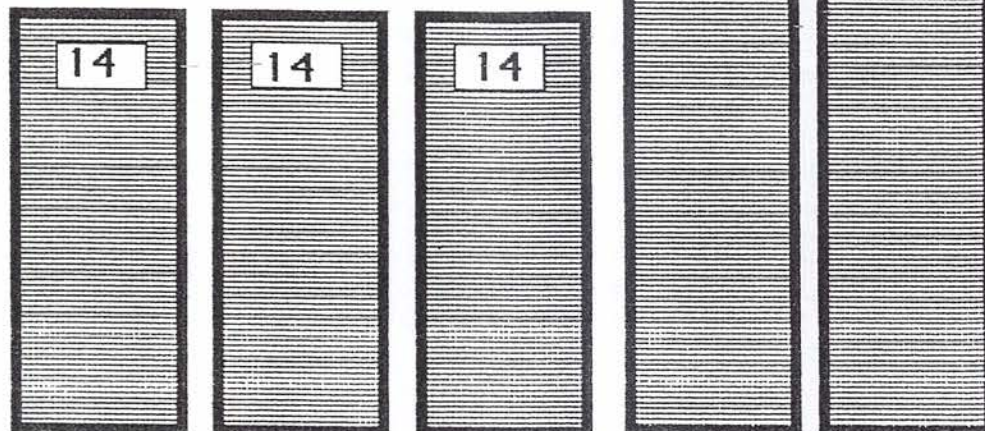


A	20	6.50 %	FL	10	3.25 %
AUS	18	5.85 %	GB	24	7.80 %
BDA	3	1.00 %	J	34	11.10 %
BR	4	1.30 %	K	33	10.80 %
CH	24	7.80 %	M	4	1.30 %
D	30	9.75 %	NL	21	6.85 %
E	4	1.30 %	P	10	3.25 %
EIR	-	3.60 %	TAI	28	9.10 %
F	-	4.55 %	USA	14	4.55 %

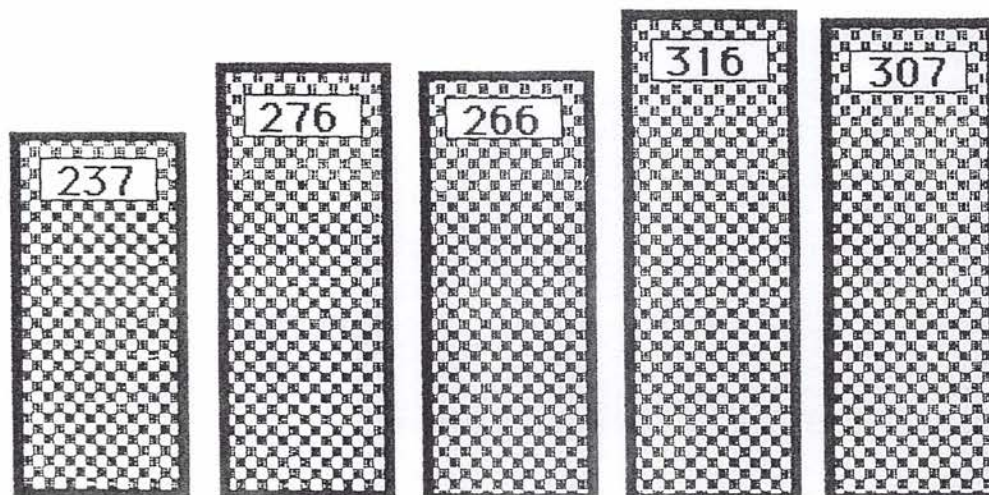
TOTAL 307

COMPARATIVE VALUES
 WERTEVERGLEICH
 VALORES COMPARADOS
 VALEURS COMPAREES

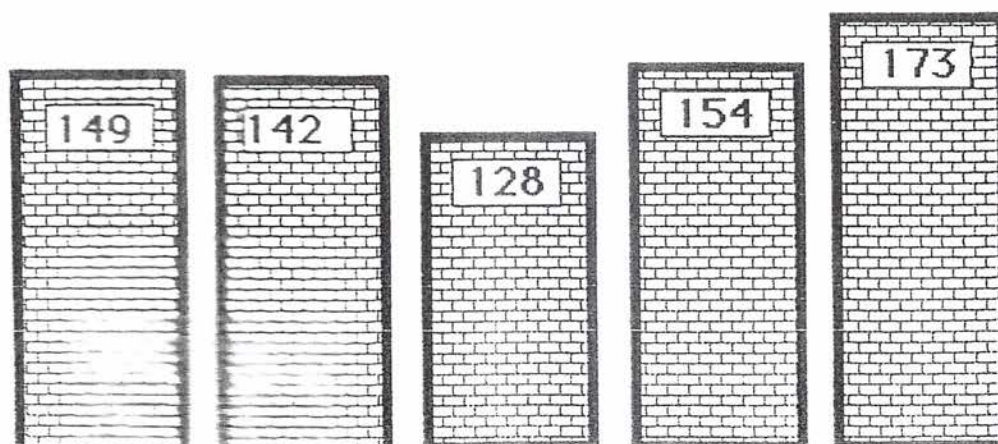
1978 1979 1981 1983 1985



COUNTRIES
 LAENDER
 PAISES
 PAYS



COMPETITORS
 WETTBEWERBER
 CONCURSANTES
 CANDIDATS



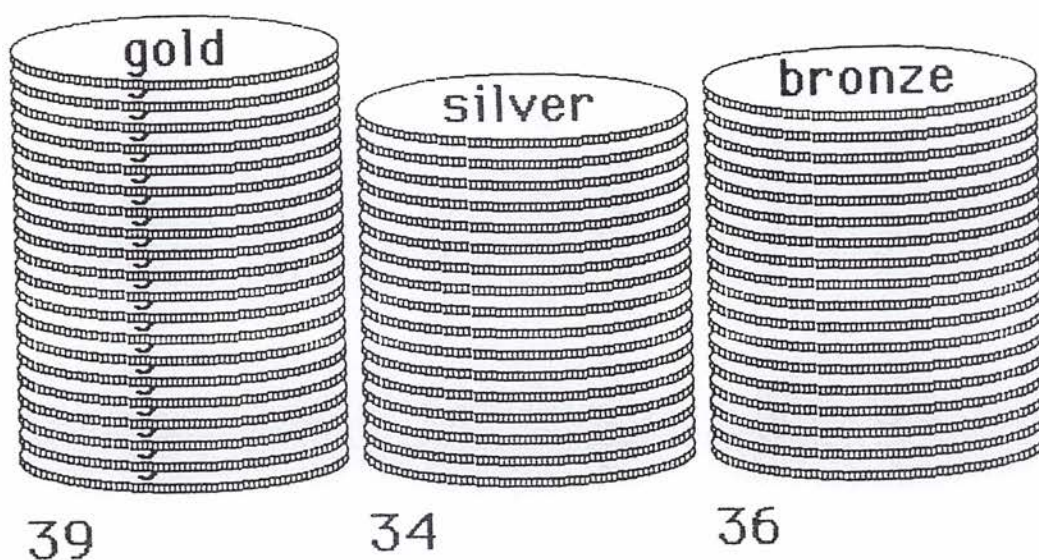
EXPERTS
 EXPERTEN
 EXPERTOS
 EXPERTS

AWARDS PER COUNTRY
 AUSZEICHNUNGEN PRO LAND
 PREMIOS POR PAIS
 PRIX DECERNES PAR PAYS

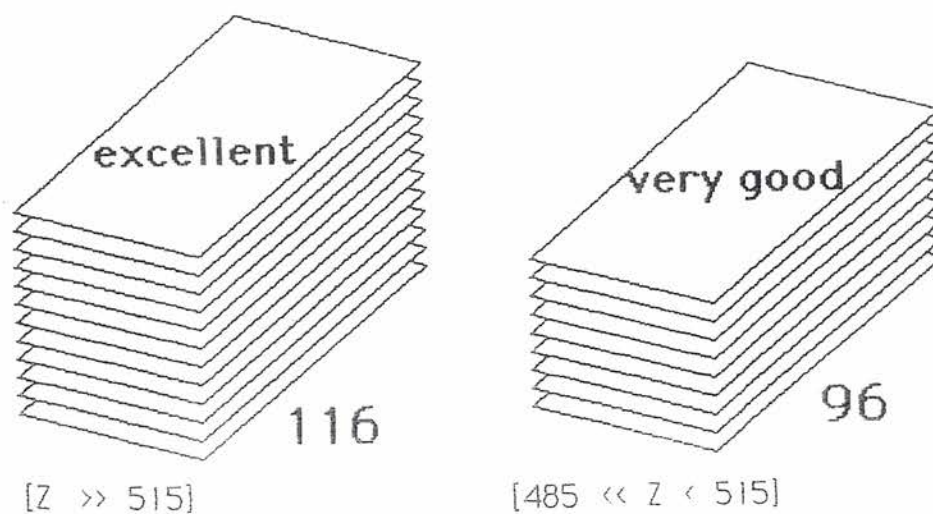
COUNTRY	GOLD	SILVER	BRONZE	EXCELLENT	VERY GOOD
A	2	2	3	10	6
AUS	1	2	3	7	10
BDA					
BR				1	1
CH	3	5	2	11	8
D	2	3	5	11	11
E					
EIR			1	3	6
F		2	1	4	5
FL			1	2	4
GB	1	1		1	12
J	11	8	4	21	6
K	15	6	3	23	5
L					
M					
NL		1	3	5	3
NZ					
P					2
TAI	3	4	9	14	13
USA	1		1	3	4
TOTAL	39	34	36	116	96

AWARDS
 AUSZEICHNUNGEN
 PREMIOS
 PRIX DECERNES

MEDALS / MEDAILLEN / MEDALLAS / MEDAILLES



SKILL PROFICIENCY DIPLOMA
 LEISTUNGS DIPLOM
 CERTIFICADO DE APTITUD PROFESIONAL
 CERTIFICAT D'APTITUDE PROFESSIONNELLE



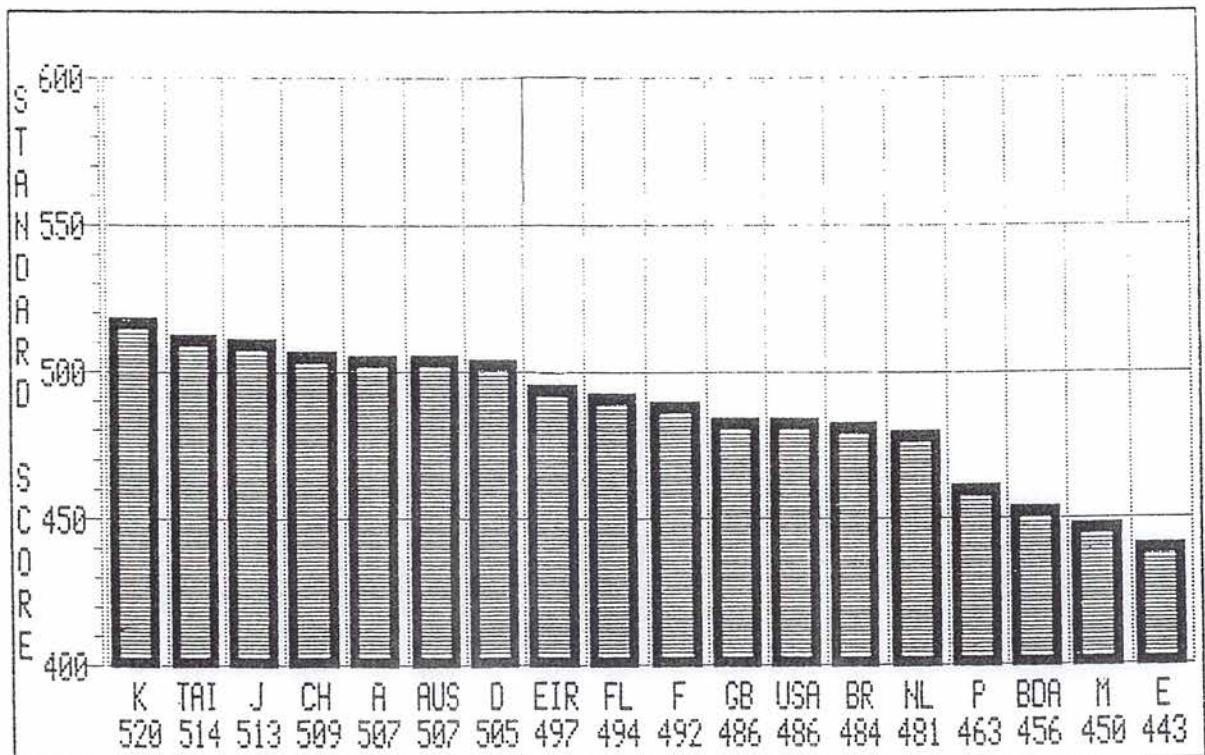
SPECIAL MEDAL
 SONDERMEDAILLE
 MEDALLA ESPECIAL
 MEDAILLE SPECIALE

" BEST OF THE NATION "

COUNTRY	SURNAME/FIRST NAME	TRADE	MARKS	STATUS
A+	GROSS Erich	25	542	SILVER
AUS+	BRASEN Glenn	20	535	GOLD
BDA+	SCOTT Michael Wayne	34	479	
BR+	DALCIN Marco Antonio	7	518	
CH+	HONAUER Patrick	34	550	GOLD
D+	SOENTGERATH Thomas	23	543	GOLD
E+	ANTUNEZ ALONSO Antonio	16	462	
EIR+	GLENNON Peter	20	520	
F+	PENNEQUIN Jean-Christophe	23	533	SILVER
FL+	OEHRI Helen	35	517	
GB+	FRANCIS Stuart Ashley	29	548	GOLD
J+	UTSUNOMIYA Noboru	16	560	GOLD
K+	SEO Kwang-Og	15	565	GOLD
M+	VU Chan Wa	35	479	
NL+	CREMERS Theodorus J.P.M.	22	531	SILVER
P+	COSTA DAVID José Manuel	6	504	
TAI+	HUANG Tien Ming	10	556	GOLD
USA+	FALLS Dennis George	36	545	GOLD

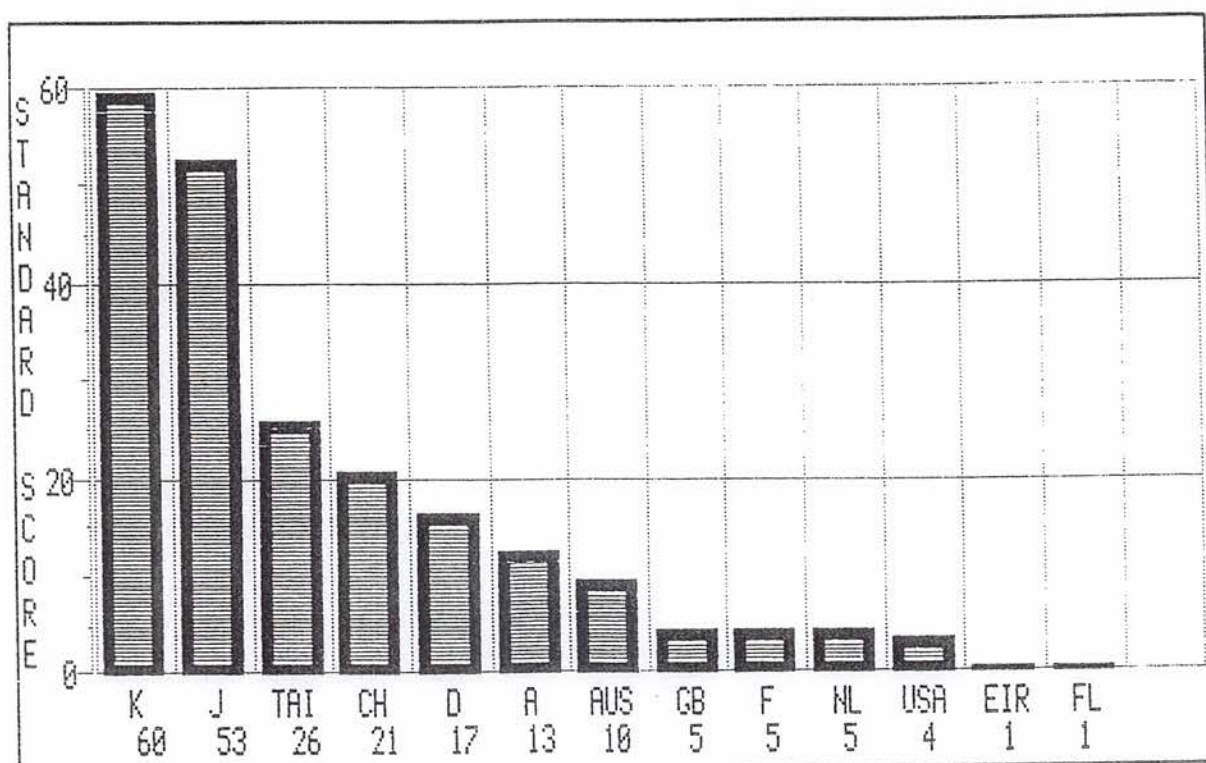
AVERAGE RESULTS PER COUNTRY
DURCHSCHNITT PRO LAND
RESULTADOS MEDIOS POR PAIS
RESULTATS MOYENS PAR PAYS

=====



RANK BASED ON OLYMPIC VALUES
RANGLISTE NACH OLYMPIABEWERTUNG
RESULTADOS SEGUN VALORES OLIMPICOS
RESULTATS SELON VALEURS OLYMPIQUES

=====



GOLD = 3 POINTS

SILVER = 2 POINTS

BRONZE = 1 POINT

JURY COMMISSIONS
BEWERTUNGS-AUSSCHUSSE
COMISIONES DE JURADOS
COMMISSIONS DE JURY

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COMPETITION SITE : KANSAI SKILL DEVELOPMENT CENTER

COMPETITION SITE MANAGER : Z. Z. KIM (K)

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
I	A BLATTNER J.	8	HUANG S.-C.	TAI
I	A BLATTNER J.	8	MENKVELD G.	NL
I	A BLATTNER J.	8	REDMAN S.	AUS *
I	A BLATTNER J.	8	SCHIFFNER F.	D
I	A BLATTNER J.	8	TAKEUCHI N.	J *
I	A BLATTNER J.	9	DILLON T.	AUS
I	A BLATTNER J.	9	KIL M.-H.	K
I	A BLATTNER J.	9	LYNCH Jack	EIR
I	A BLATTNER J.	9	ONO M.	J *
I	A BLATTNER J.	10	CHENG C.-M.	TAI
I	A BLATTNER J.	10	CRVER Peter	AUS
I	A BLATTNER J.	10	KENYON B.	GB
I	A BLATTNER J.	10	NISHINA A.	J
I	A BLATTNER J.	10	SERRA NEVES A.	P

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
II	USA WILBANKS J.A.	11	GONÇALVES Jose	P
II	USA WILBANKS J.A.	11	KOMETER Anton	A
II	USA WILBANKS J.A.	11	TAKENAKA Mitsutoshi	J
II	USA WILBANKS J.A.	11	VAN DE VELDE R.	NL
II	USA WILBANKS J.A.	11	WOLF Johann	D
II	USA WILBANKS J.A.	11	WUERSCHING David Roy	AUS *
II	USA WILBANKS J.A.	24	BEVAART Bastiaan	NL
II	USA WILBANKS J.A.	24	KAO Te-Huang	TAI
II	USA WILBANKS J.A.	24	NELSON Rodney Rod	AUS *
II	USA WILBANKS J.A.	24	NODA Shigeru	J *
II	USA WILBANKS J.A.	24	SCHEIDEGGER Fritz	CH
II	USA WILBANKS J.A.	24	SCHRAEGLE Guenter	D
II	USA WILBANKS J.A.	25	DUARTE Agostinho	P
II	USA WILBANKS J.A.	25	KIL Jonhgn-Chun	K
II	USA WILBANKS J.A.	25	NATSUME Yukio	J *
II	USA WILBANKS J.A.	25	PFEIFFER Gerhard	A
II	USA WILBANKS J.A.	25	SCHULTZ Bill	AUS *

* = EXPERTS OC

COMMISSION		PRESIDENT	TRADE	EXPERT	COUNTRY
III	F	DUTERTRE R.	12	BINGGELI H.-U.	CH
III	F	DUTERTRE R.	12	LOIZEAU D.	F
III	F	DUTERTRE R.	12	WAKABAYASHI T.	J
III	F	DUTERTRE R.	12	WEDEL W.	D
III	F	DUTERTRE R.	15	CROFT Laurie	GB
III	F	DUTERTRE R.	15	GRASSET Alan	AUS
III	F	DUTERTRE R.	15	KIM Suk Yoon	K
III	F	DUTERTRE R.	15	SEIKI Y.	J *
III	F	DUTERTRE R.	26	BRUMFIELD Malcolm	AUS
III	F	DUTERTRE R.	26	DELAUNAY Michel	F
III	F	DUTERTRE R.	26	ENGELSMAN C.	NL
III	F	DUTERTRE R.	26	NATTRESS James	GB
III	F	DUTERTRE R.	26	PHELAN Richard	EIR
III	F	DUTERTRE R.	26	ROESTI Theo	CH
III	F	DUTERTRE R.	26	YAMAGUCHI W.	J *

COMMISSION		PRESIDENT	TRADE	EXPERT	COUNTRY
IV	D	SCHROPP F.	18	BUECHEL Werner	FL
IV	D	SCHROPP F.	18	COOK Charles	AUS *
IV	D	SCHROPP F.	18	YAMAMOTO I.	J
IV	D	SCHROPP F.	18	YU P.-J.	TAI
IV	D	SCHROPP F.	19	CAMPONOVIO Gianfranco	CH
IV	D	SCHROPP F.	19	KOBAYASHI M.	J
IV	D	SCHROPP F.	19	PEARCE T.	AUS *
IV	D	SCHROPP F.	19	SUH Y.-S.	K

COMPETITION SITE :
HIGASHI-YODOGAWA ADVANCED VOCATIONAL TRAINING COLLEGE

COMPETITION SITE MANAGER : G. DRESSEL (D)

COMMISSION		PRESIDENT	TRADE	EXPERT	COUNTRY
V	NL	BEUK C.	5	WATTIS J.	AUS *
V	NL	BEUK C.	5	WEIBEL Beat	CH
V	NL	BEUK C.	5	LINSERT H.	D
V	NL	BEUK C.	5	HEEB Othmar	FL
V	NL	BEUK C.	5	SUMIKAWA M.	J
V	NL	BEUK C.	5	LEE W.-B.	K
V	NL	BEUK C.	29	BAUER H.	A
V	NL	BEUK C.	29	MC DONALD Carol	AUS
V	NL	BEUK C.	29	CLOAKE P.	GB
V	NL	BEUK C.	29	YAMANO Y.	J *
V	NL	BEUK C.	29	CHEN Y.-H.	TAI
V	NL	BEUK C.	30	KLEVER B.	E
V	NL	BEUK C.	30	NIGORRA GAYA Francisco	E
V	NL	BEUK C.	30	TAKEMORI S.	J
V	NL	BEUK C.	30	KALLE P.	FL

* = EXPERTS OC

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
VI	FL NIGSCH J.	31	TATSUGUCHI K.	J
VI	FL NIGSCH J.	31	SAURAT Olga	F
VI	FL NIGSCH J.	31	TAO C.-C.	TAI
VI	FL NIGSCH J.	31	VAUGHAN G.	GB
VI	FL NIGSCH J.	36	CHO Y.-Chul	K
VI	FL NIGSCH J.	36	DOYLE J.	USA
VI	FL NIGSCH J.	36	HAMA T.	J
VI	FL NIGSCH J.	36	STAUFFER Michel	CH
VI	FL NIGSCH J.	36	WANG C.-C.	TAI

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
VII	E TARACENA GIL P.	13	PROELLOCS D.	AUS *
VII	E TARACENA GIL P.	13	REBER Max	CH
VII	E TARACENA GIL P.	13	PASQUIER Y.	F
VII	E TARACENA GIL P.	13	SARAI H.	J
VII	E TARACENA GIL P.	13	CHOI J.-W.	K
VII	E TARACENA GIL P.	14	BRESSINGTON S.	AUS *
VII	E TARACENA GIL P.	14	SCHMALENBACH D.	D
VII	E TARACENA GIL P.	14	OBANA K.	J
VII	E TARACENA GIL P.	14	LEE Y.-H.	K
VII	E TARACENA GIL P.	14	EVARISTO GONCALVES Rui	P
VII	E TARACENA GIL P.	14	YANG W.-H.	TAI

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
VIII	BR DE MIRANDA L.P.	20	CROWE J.	AUS
VIII	BR DE MIRANDA L.P.	20	STANFORD D.W.	USA
VIII	BR DE MIRANDA L.P.	20	GERVASI Luigi	CH
VIII	BR DE MIRANDA L.P.	20	HOSFORD F.	EIR
VIII	BR DE MIRANDA L.P.	20	HUANG L.-M.	TAI
VIII	BR DE MIRANDA L.P.	20	PIETRUCK H.	D
VIII	BR DE MIRANDA L.P.	20	TANAKA T.	J *
VIII	BR DE MIRANDA L.P.	21	ELLIS P.	GB
VIII	BR DE MIRANDA L.P.	21	FUJITA S.	J
VIII	BR DE MIRANDA L.P.	21	RABL F.	D

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
VIII	GB ARCULUS R.	22	MARIEL J.	D
VIII	GB ARCULUS R.	22	OTA K.	J *
VIII	GB ARCULUS R.	22	PARK D.-S.	K
VIII	GB ARCULUS R.	22	VAN DER MEER P.	NL
VIII	GB ARCULUS R.	23	PASTWA B.	D
VIII	GB ARCULUS R.	23	BORJON-PIRON A.	F
VIII	GB ARCULUS R.	23	JONAI T.	J

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
X	P TOMAS M.	33	CHIBA K.	J
X	P TOMAS M.	33	KNOWLES D.	GB
X	P TOMAS M.	33	MEYER I.	D
X	P TOMAS M.	33	O'BRIEN J.	EIR
X	P TOMAS M.	33	ORDWAY B.	AUS
X	P TOMAS M.	33	THEBERT F.	USA

* = EXPERTS OC

COMPETITION SITE :
MATSUSHITA EDUCATION AND TRAINING CENTRE

COMPETITION SITE MANAGER : B. J O N E S (AUS)

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
XI	EIR CORCORAN L.	1	CHEESEMAM John S.	AUS
XI	EIR CORCORAN L.	1	KIM Young Chul	K
XI	EIR CORCORAN L.	1	GUAN Jau Yirn	TAI
XI	EIR CORCORAN L.	1	LEHNER Gerhard	A
XI	EIR CORCORAN L.	1	UTIDA Tukasa	J *
XI	EIR CORCORAN L.	1	ZIELINSKI Hans	D
XI	EIR CORCORAN L.	2	OESER Werner	D
XI	EIR CORCORAN L.	2	MATSUMI Masahiko	J *
XI	EIR CORCORAN L.	2	PARK Ch.-K.	K
XI	EIR CORCORAN L.	2	SAVAGE Roger F.	GB
XI	EIR CORCORAN L.	2	SIHORSCH Kurt	A
XI	EIR CORCORAN L.	2	WOODS Jack	AUS *
XI	EIR CORCORAN L.	3	ICHIKAWA Yoshikane	J
XI	EIR CORCORAN L.	3	KRANZ Ewald	FL
XI	EIR CORCORAN L.	3	SMIT Coenraad	NL
XI	EIR CORCORAN L.	3	WANG Shing-Tu	TAI
XI	EIR CORCORAN L.	3	WENGER Willy	CH

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
XII	M/NZ FERREIRA P./MA	6	BRADSHAW Rick	AUS *
XII	M/NZ FERREIRA P./MA	6	CHO Lee Seung	K
XII	M/NZ FERREIRA P./MA	6	MASCARENHAS COSTA Jose	BR
XII	M/NZ FERREIRA P./MA	6	CARVALHO PEREIRA Julio	P
XII	M/NZ FERREIRA P./MA	6	TSURUTA Touru	J
XII	M/NZ FERREIRA P./MA	7	DAVIES Gwyn	GB
XII	M/NZ FERREIRA P./MA	7	LIN Ing Nan	TAI
XII	M/NZ FERREIRA P./MA	7	MITCHELL Bryan	AUS *
XII	M/NZ FERREIRA P./MA	7	MIWA Toyotaka	J *
XII	M/NZ FERREIRA P./MA	7	YOOK Jong Hak	K
XII	M/NZ FERREIRA P./MA	7	BOLDUC Richard R.	USA

* = EXPERTS OC

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
XIII	CH FERRARI S.-A.	4	KLIP Robert	NL
XIII	CH FERRARI S.-A.	4	MATSUSHITA Bunzo	J
XIII	CH FERRARI S.-A.	4	STRAUMANN Hans	CH
XIII	CH FERRARI S.-A.	27	DE GIORGIO Edger A.	AUS
XIII	CH FERRARI S.-A.	27	HAAS Wilfried	A
XIII	CH FERRARI S.-A.	27	HAMBLING Michael	GB
XIII	CH FERRARI S.-A.	27	HONG Kil Pyo	K
XIII	CH FERRARI S.-A.	27	LEVASSEUR Robert	F
XIII	CH FERRARI S.-A.	27	WAKATSUKI Yoshihiro	J *

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
XIV	TAI YUAN C.K.	16	HALL Neville	AUS *
XIV	TAI YUAN C.K.	16	SUZUKI Shigeru	J
XIV	TAI YUAN C.K.	16	NEUBIG Manfred	D
XIV	TAI YUAN C.K.	16	LORING Richard	USA
XIV	TAI YUAN C.K.	16	TRIPONEZ Gerard	CH
XIV	TAI YUAN C.K.	17	HASELMAIER Rudolf	D
XIV	TAI YUAN C.K.	17	SONG In-Hyung	K
XIV	TAI YUAN C.K.	17	STECKEL Frank Richard	USA
XIV	TAI YUAN C.K.	17	MATSUNAGA Mekoto	J
XIV	TAI YUAN C.K.	17	WANG Kuang-Yuang	TAI

COMPETITION SITE : JAPAN PROFESSIONAL COOKING COLLEGE

COMPETITION SITE MANAGER : W. SCHUDEL (CH)

COMMISSION	PRESIDENT	TRADE	EXPERT	COUNTRY
XV	CH SCHUDEL W.	34	BORDIER J.	F
XV	CH SCHUDEL W.	34	HUNTER A.	GB
XV	CH SCHUDEL W.	34	KINDL J.	A
XV	CH SCHUDEL W.	34	LIGHTHART G.	NL
XV	CH SCHUDEL W.	34	SCHOOTS T.	AUS
XV	CH SCHUDEL W.	34	SCHUDEL Walter	CH
XV	CH SCHUDEL W.	34	SHIBATA T.	J *
XV	CH SCHUDEL W.	35	EGGELMEIJER J.	NL
XV	CH SCHUDEL W.	35	FISCHER Conrad	CH
XV	CH SCHUDEL W.	35	LEES C.	GB
XV	CH SCHUDEL W.	35	LOPES G.R.	M
XV	CH SCHUDEL W.	35	MAWARIDO T.	J
XV	CH SCHUDEL W.	35	METZ R.	D
XV	CH SCHUDEL W.	35	MIN P.-J.	K

* = EXPERT

COMPETITORS
WETTBEWERBER
CONCURSANTES
CANDIDATS

=====

SURNAME/FIRST NAME	TRADE	COUNTRY
TOMSCHI Karl	1	A
SAVAGE Steven Lee	1	AUS
BARBARA DA SILVA Eder	1	BR
SCHAEFE Klaus	1	CH
WOLF Harald	1	D
MURPHY Eamonn	1	EIR
SCOTT Paul	1	GB
NAKAMURA Hiroya	1	J
SONG Sun-Geun	1	K
YEUNG Chan Hong	1	M
ANGEVARE Robertus M.	1	NL
MARQUES NUNES Nelson L.	1	P
CHIEN Chou Tan	1	TAI
WETSCHNIG Günther	2	A
SEMLER Anthony	2	AUS
BROSI Markus	2	CH
HAFNER Harald	2	D
WHELAN John	2	EIR
MOORE Christopher Russell	2	GB
TAKEUCHI Masaomi	2	J
YOU Seung-Og	2	K
BULTEN Hendrikus A.	2	NL
HUANG Chao Hsu	2	TAI
MIHOVETZ John William	2	USA
RUFENER Peter	3	CH
SCHILLER Andreas	3	D
STEINER Olaf	3	FL
HIEI Wataru	3	J
CHUNG Lee-Yun	3	K
YAN OOSTEN Petrus L.M.	3	NL
KAO Chin Fei	3	TAI
GOTTSCHAU Urs	4	CH
FIGOLS Jean-Marc	4	F
KOMATSU Ikuko	4	J
CHUNG Du-Mae	4	K
ARENS Andre	4	NL
HSU Kuo Hsien	4	TAI

SURNAME/FIRST NAME	TRADE	COUNTRY
HAINS Ricky	5	AUS
GEISER Michael	5	CH
TRAUNER Monika	5	D
VOGT Daniela	5	FL
SATO Minoru	5	J
PARK Su-Cheon	5	K
CHEN Chin Chou	5	TAI
YENNETTILLI Alberto	5	USA
HAIDER Robert	6	A
CROUCHLEY Glenn Stephen	6	AUS
PROENÇA DE CARVALHO José Eduardo	6	BR
BENEDETTI Bruno	6	CH
DREXL Peter	6	D
WOODHOUSE Kenneth	6	GB
OSAKI Masahiro	6	J
KIM Eung-Man	6	K
MOK Chung Sam	6	M
ROOS Wilhelmus P.M.	6	NL
COSTA DAVID José Manuel	6	P+
JAN Yi Huang	6	TAI
McGINTY Aaron Andrew	6	USA
BRUNNER Johann	7	A
DALCIN Marco Antonio	7	BR+
ROTH Stefan	7	CH
BENKART Josef	7	D
LEAR Paul	7	GB
TAKAHASHI Akira	7	J
BAE Sang-Chul	7	K
DE LIJSER Jozias L.	7	NL
GUIA LOPES Rui Manuel	7	P
CHIEN Yung Yi	7	TAI
DECHELLIS Anthony Gueseppe	7	USA
PRYSE Stephen James	8	AUS
PODSZUCK Peter	8	D
BOUTARD Christophe	8	F
BARGETZE Elmar	8	FL
ATARI Shoji	8	J
CHOI Wung-Eui	8	K
YAN DEN DOLEWAARD Evert G.	8	NL
LIN Chun Tsung	8	TAI

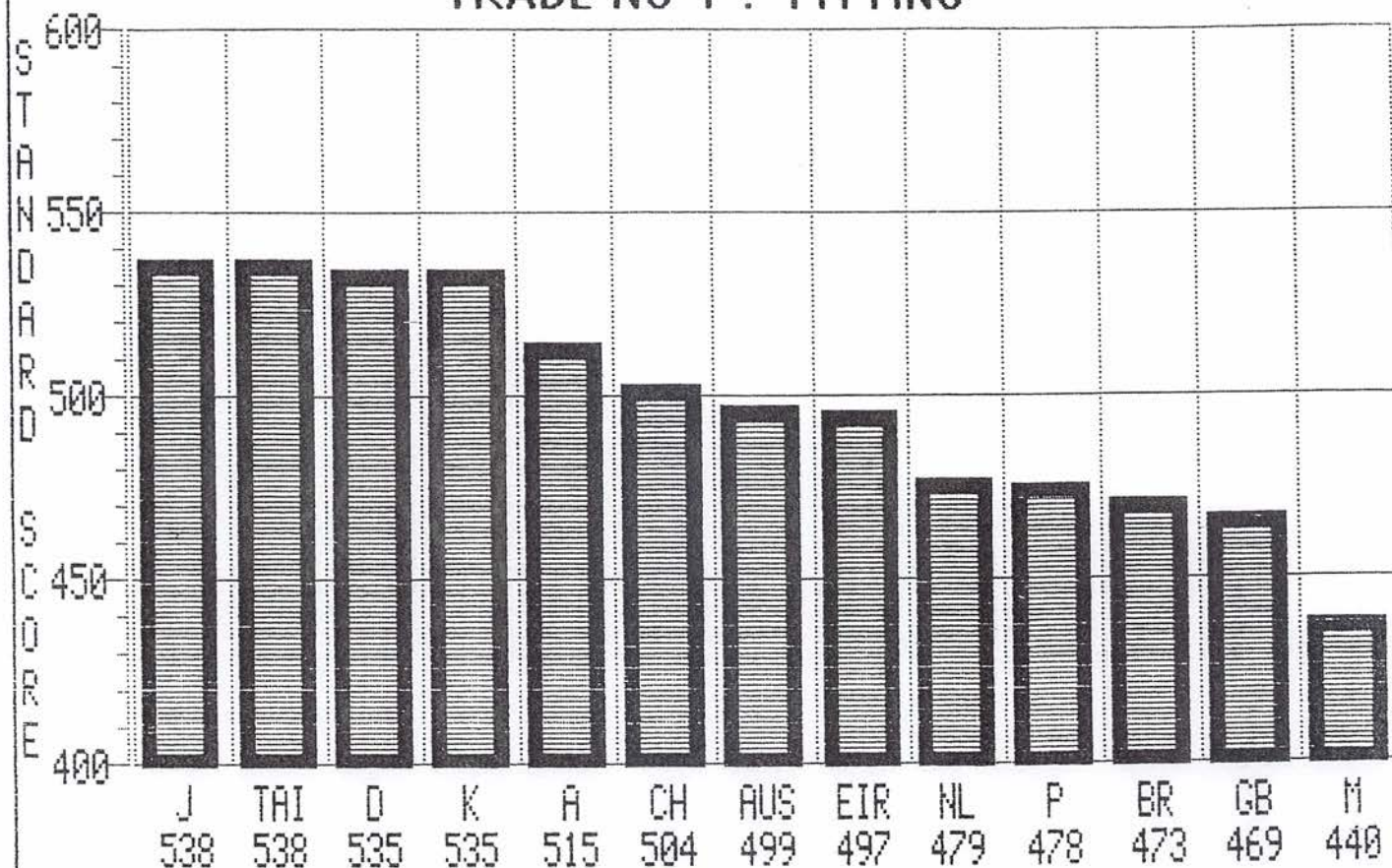
SURNAME/FIRST NAME	TRADE	COUNTRY	SURNAME/FIRST NAME	TRADE	COUNTRY
MOHNERT Markus	9	D	PICHELMANN Parry	15	AUS
CULLEN Don	9	EIR	WEBER Christian	15	CH
SATO Tatsutoshi	9	J	LAUBVOGEL Meike	15	D
SUNG Jun-Seok	9	K	O'CALLAGHAN Eugene	15	EIR
YU Te Fang	9	TAI	DUPERRON Bruno Joseph	15	F
GRUENER Martin	10	A	WATKINS Christopher Ian	15	GB
CONDAN Paul	10	AUS	UESAWA Hiromi	15	J
PRATES DE ALMEIDA Sidnei G.	10	BR	SEO Kwang-Og	15	K+
PESLA Henryk	10	D	LO Chuan Tsung	15	TAI
DEMPSEY Patrick	10	EIR	HESLEP Phillip M.	15	USA
SHIELDS Colin David	10	GB	HARRIOTT John	16	AUS
TANIOKA Makoto	10	J	McLEOD Paul Benjamin	16	BDA
PARK Kyu-Joon	10	K	CAPELLA Angelo	16	CH
SPANHAAK Alexander J.	10	NL	MUELLNER Martin	16	D
ALMEIDA MARQUES Mario Jorge	10	P	ANTUNEZ ALONSO Antonio	16	E+
HUANG Tien Ming	10	TAI+	WRIGHT Alison Margaret	16	GB
KERBL Holger	11	A	UTSUNOMIYA Noboru	16	J+
SMITH Mark Andrew	11	AUS	LEE II	16	K
BRUEHLMEIER Christoph	11	CH	CHO Wen Shui	16	TAI
SCHREINER Martin	11	D	HAAS Joseph Michael	16	USA
COOK Simon	11	GB	SCHENK Paul	17	A
SAKAMOTO Okinobu	11	J	SCHMID Daniel	17	CH
AN Ho-Chil	11	K	BALDAUF Albert	17	D
VAN EIJK Gijbertus	11	NL	RUIZ DELGADO Jose	17	E
SILVA REIS António Manuel	11	P	HEININK Matthew Thomas	17	GB
HUANG Ti Jung	11	TAI	SHIMAJIRI Yukihiro	17	J
KOEB Manfred	12	A	KIM Si-Jung	17	K
FRIEDEN Michael	12	CH	CHEN Yi Pin	17	TAI
BIBER Thomas	12	D	ANDERSON Kenneth Anton	17	USA
GLOT Franck	12	F	JOHNSON Graeme Rex	18	AUS
MIYAMURA Hiroki	12	J	SCHWEGLER Bruno	18	CH
LEITHINGER Bernd	13	A	FORSTER Erich	18	D
RUBLI Dante	13	CH	CHRIST Thomas	18	FL
SCHWIDURSKI Albrecht	13	D	FUJITA Shoji	18	J
LALANNE Didier	13	F	KIM Kwang-Soo	18	K
TOYAMA Yoshihiro	13	J	SANTOS LOPES Luis Filipe	18	P
HAN Seok-Jin	13	K	CHEN Ming Kun	18	TAI
LU Hsueh Meng	13	TAI	CARLTON Ronnie Ford	18	USA
HERTER Jens-Uwe	14	D	CLARK Steven Bruce	19	AUS
PARROT Franck	14	F	FACCHINETTI Sandro	19	CH
SATCHELL Andrew Neil	14	GB	BLUMREITER Johann	19	D
SAITO Yoshihiro	14	J	O'HANLON James	19	EIR
	14	K	SAITO Toshio	19	J
JOSE Manuel	14	P	LEE Jae-Sung	19	K
	14	TAI	CHEN Chi Hui	19	TAI

SURNAME/FIRST NAME	TRADE	COUNTRY
BRASEN Glenn	20	AUS+
HAELLER Stefan	20	CH
DEUTSCHMANN Bruno	20	D
GLENNON Peter	20	EIR+
FOUQUET Louis	20	F
MARXER Josef	20	FL
JONES Martin John	20	GB
MORIMOTO Yukinori	20	J
KIM Young-Hwan	20	K
HORSMAN Johan	20	NL
GUERREIRO SILVESTRE Jose B.	20	P
HUANG Chao Hsiung	20	TAI
MERCADO Oscar	20	USA
BUCHBERGER Walter	21	A
HELLER Stefan	21	CH
WAGENBACH Stefan	21	D
GROB Patrick	21	F
COSTIN William	21	GB
TAKASU Hideyuki	21	J
KIM Hyung-Kwan	21	K
VISSERS Anthonius A.B.	21	NL
FU Yi Hui	21	TAI
FOLLMANN Günther	22	A
ZISTLER Angela	22	D
CURTIN Denis Mark	22	EIR
CAMPLING Shaun Bratby	22	GB
AMANO Ikuya	22	J
KIM Hyun-Sung	22	K
CREMERS Theodorus J.P.M.	22	NL+
SOENTGERATH Thomas	23	D+
PENNEQUIN Jean-Christophe	23	F+
BECK Helmut	23	FL
O'BRIEN Paul Fintan	23	GB
SATO Hiroshi	23	J
LEE Jae-Young	23	K
WEYER Harry	23	NL
REHRL Werner	24	A
TSIAMIS Chris	24	AUS
NIEDERMANN Josef	24	CH
YETTER Gerd	24	D
JORDAN Tomás	24	EIR
DOMBRE Pascal	24	F
PLOMER Francis	24	GB
TANOOKA Susumu	24	J
KIM Jang-Hwoi	24	K
EUNISSEN Johannes M.G.	24	NL
CHANG Wen Hsin	24	TAI
PINK Eric J.	24	USA

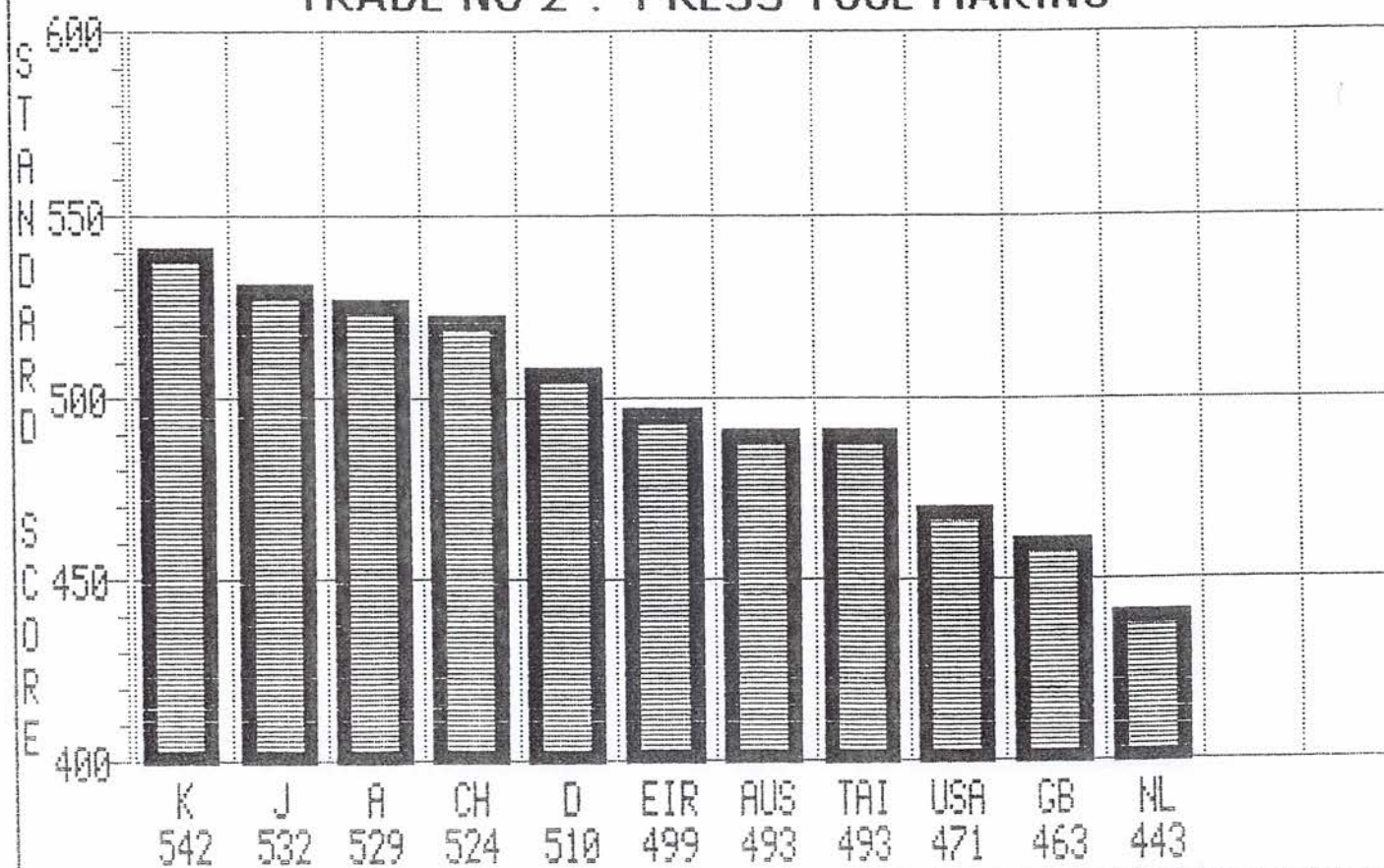
SURNAME/FIRST NAME	TRADE	COUNTRY
GROSS Erich	25	A+
SCHAERLI René	25	CH
KLUPSCH Johannes	25	D
MARECHAL Gilles	25	F
ROE Ian	25	GB
KAMADA Mitsukuni	25	J
LEE Jung-Il	25	K
LEGEMAAT Gerrit	25	NL
FANECO DA CRUZ Julio A.	25	P
SHEN Yueh Lin	25	TAI
SCHROEDER Josef	26	A
VONHOFF Paul Edwin	26	AUS
LUETZELSCHWAB Urs	26	CH
MING Henry Steven	26	D
GALLAGHER John	26	EIR
FASSOT Stéphane	26	F
THOMPSON Mark	26	GB
TANAKA Hiromi	26	J
HWANG Moo-Young	26	K
STURRIS Willem H.	26	NL
LIU Wen Teng	26	TAI
SEIKOT Franz X.	27	A
HITCHINS Kevin John	27	AUS
CAYSSIOLS Christophe H.J.M.	27	F
SIMPSON Howard	27	GB
SHIMURA Kenji	27	J
HWANG Kyu-Jeon	27	K
YLEMMIX Josefus M.A.	27	NL
MULLI Marika	29	A
DEPELER Robyn	29	AUS
WIEGANDT Peter	29	D
PECES VELASCO Juan Carlos	29	E
WOHLWEND Maria-Luise	29	FL
FRANCIS Stuart Ashley	29	GB+
OKA Tomomi	29	J
KIM Hyung-Suk	29	K
BOSMAN Fredericks P.M.	29	NL
LING Huei Yin	29	TAI
ZIEG Misti Machele	29	USA
GOLLNER Karl	30	A
LARAIA Roberto	30	D
GALLO Frankie	30	GB
YOSHIDA Koji	30	J
HAN Yong-Soo	30	K
Y.D. HEUYEL Martin G.	30	NL
HSU Su Pi	30	TAI

SURNAME/FIRST NAME	TRADE	COUNTRY
GASTBERGER Christa	31	A
MANNI Gieri	31	CH
DULEYRIE Nadège	31	F
GANTNER Hannelore	31	FL
WILLIS Jennifer Lorretta	31	GB
TSUJI Chieko	31	J
KIM Dae-Ho	31	K
CHEN Chia Li	31	TAI
LUTIGER Scott	33	AUS
DIEZ Uwe	33	D
PRESA CASTRO Jose Antonio	33	E
HUNT Anthony	33	EIR
NUTT Stephan Reinhold	33	FL
STEER Peter Alan	33	GB
MINESHIMA Eiji	33	J
MUN Hak-Hun	33	K
CARROLA MALACA Rui Manuel	33	P
SU Huan Jen	33	TAI
KELLEY Ricky Joe	33	USA
WALKENSTEINER Thomas Michael	34	A
RUDDY Carolyn	34	AUS
SCOTT Michael Wayne	34	BDA+
HONAUER Patrick	34	CH+
WOLLENBERG Michael	34	D
BOURBON Gilles	34	F
CAPALDI Raymond Gerrard	34	GB
SEKINE Kazumasa	34	J
LEE Pyong-Duk	34	K
VAN Kam Ya	34	M
HOITINK Benedicte G.A.	34	NL
ARRUDA Michael	34	USA
ANGYAL Wolfgang J.	35	A
LINDSAY Wyman William	35	BDA
WETTSTEIN Matthias	35	CH
MACK Barbara Christina	35	D
OEHRH Helen	35	FL+
HOLMES Erica Ruth	35	GB
KOMATSU Yuuichi	35	J
LEE Ho-Woong	35	K
YU Chan Wa	35	M+
VAN DEN TILLAART Antonius	35	NL
FANTOLI Yvan	36	CH
MUNAKATA Yukiyooshi	36	J
JEE Nam-Jin	36	K
CHEN Kuo Liang	36	TAI
FALLS Dennis George	36	USA+

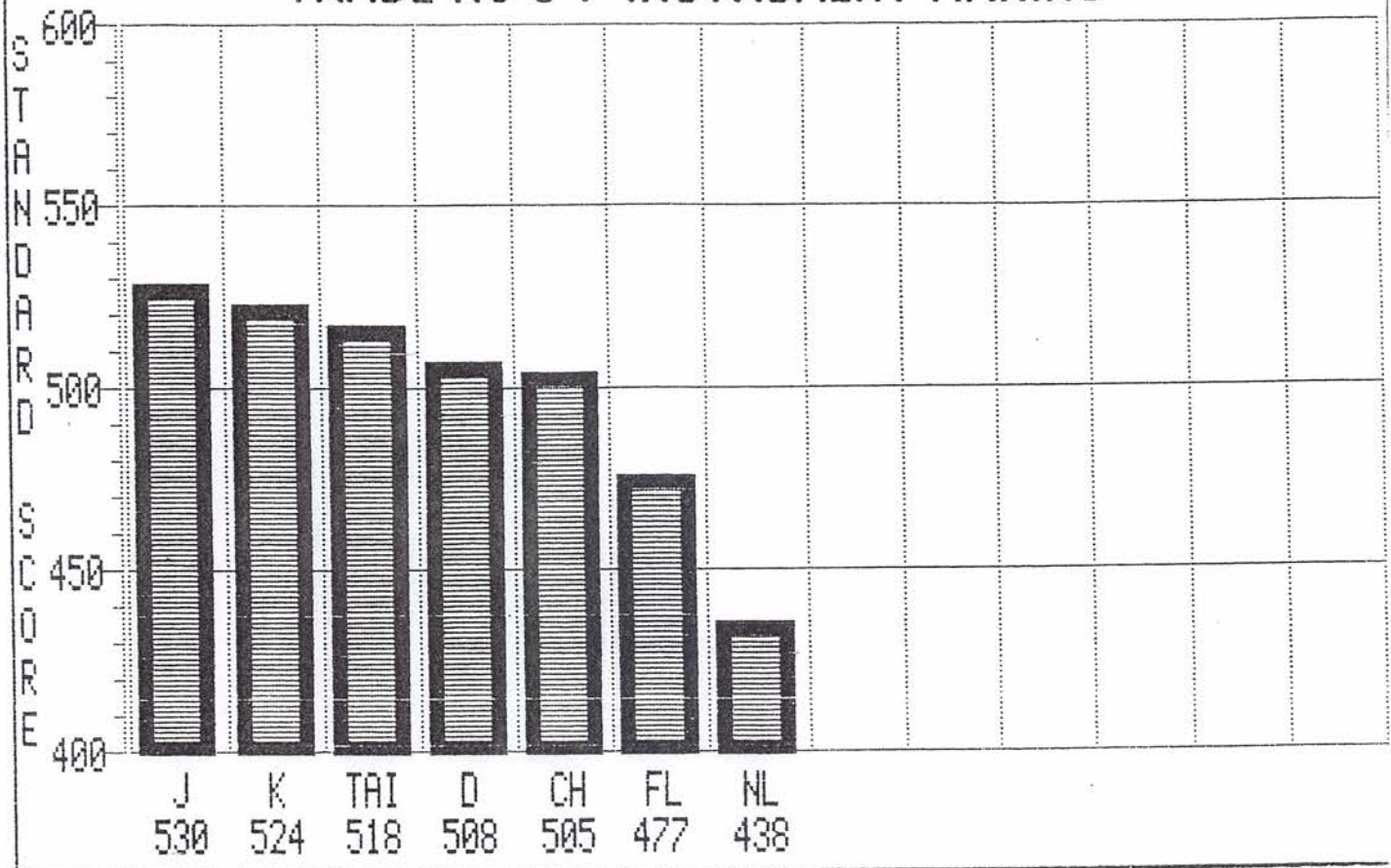
TRADE NO 1 : FITTING



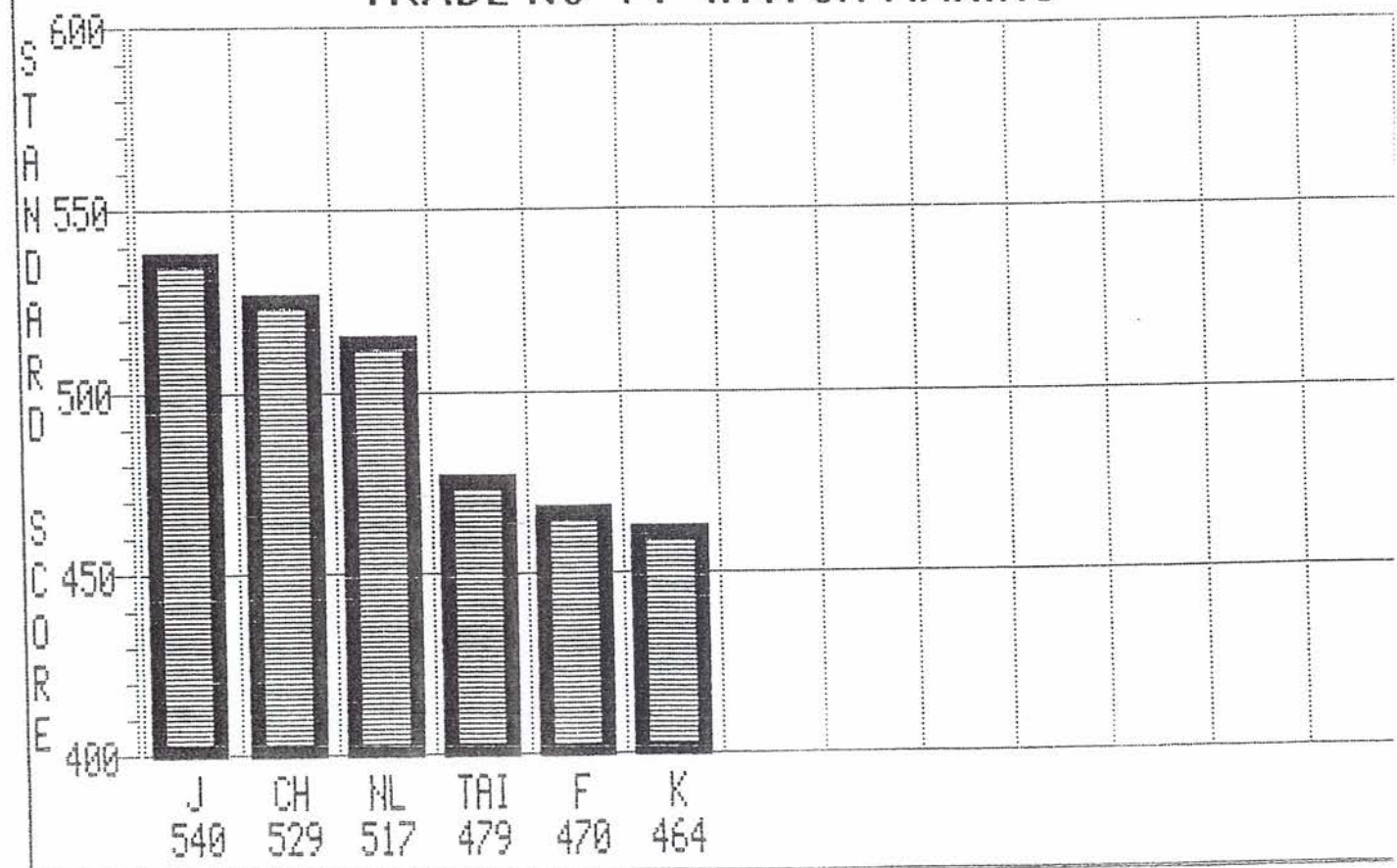
TRADE NO 2 : PRESS TOOL MAKING



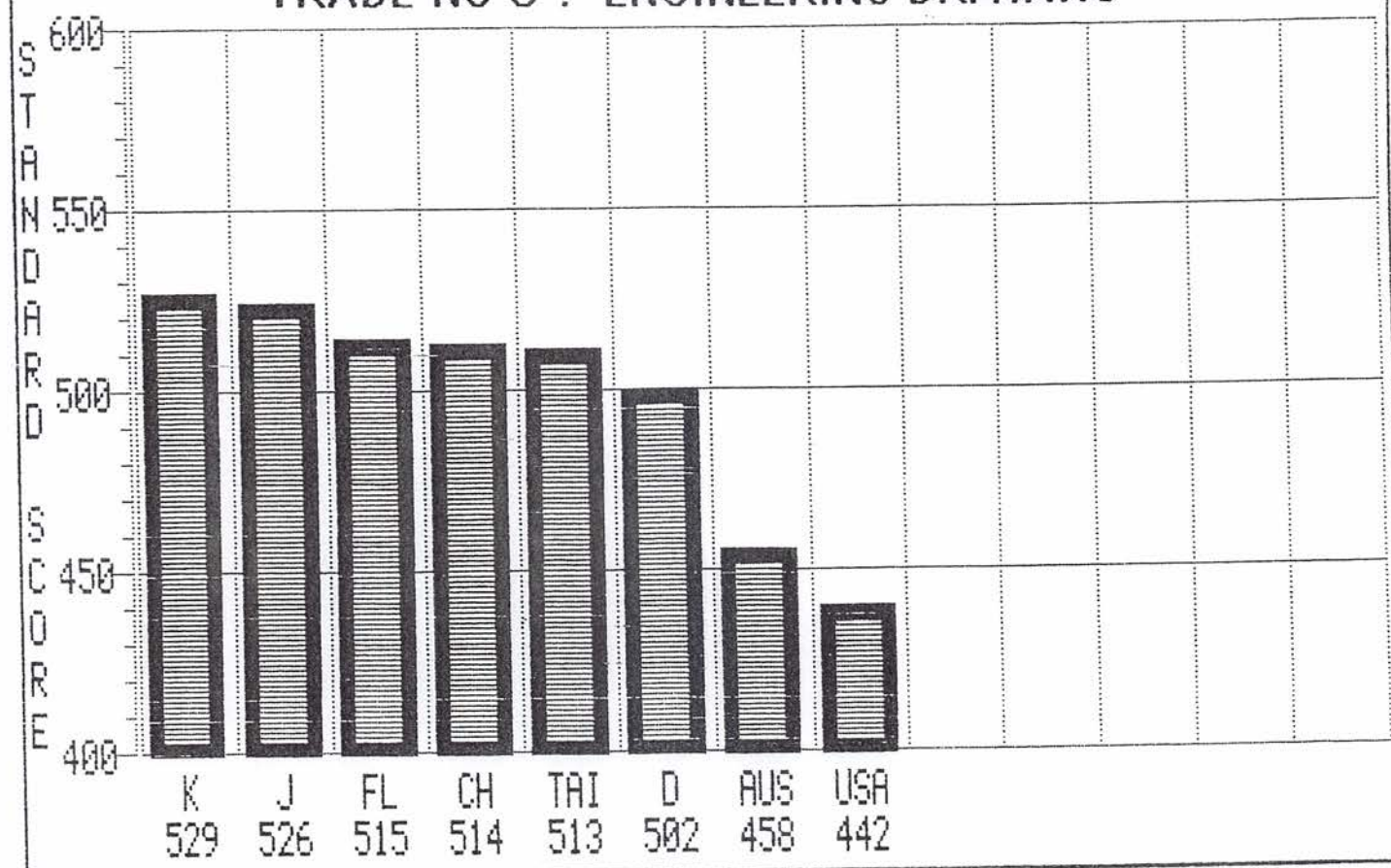
TRADE NO 3 : INSTRUMENT MAKING



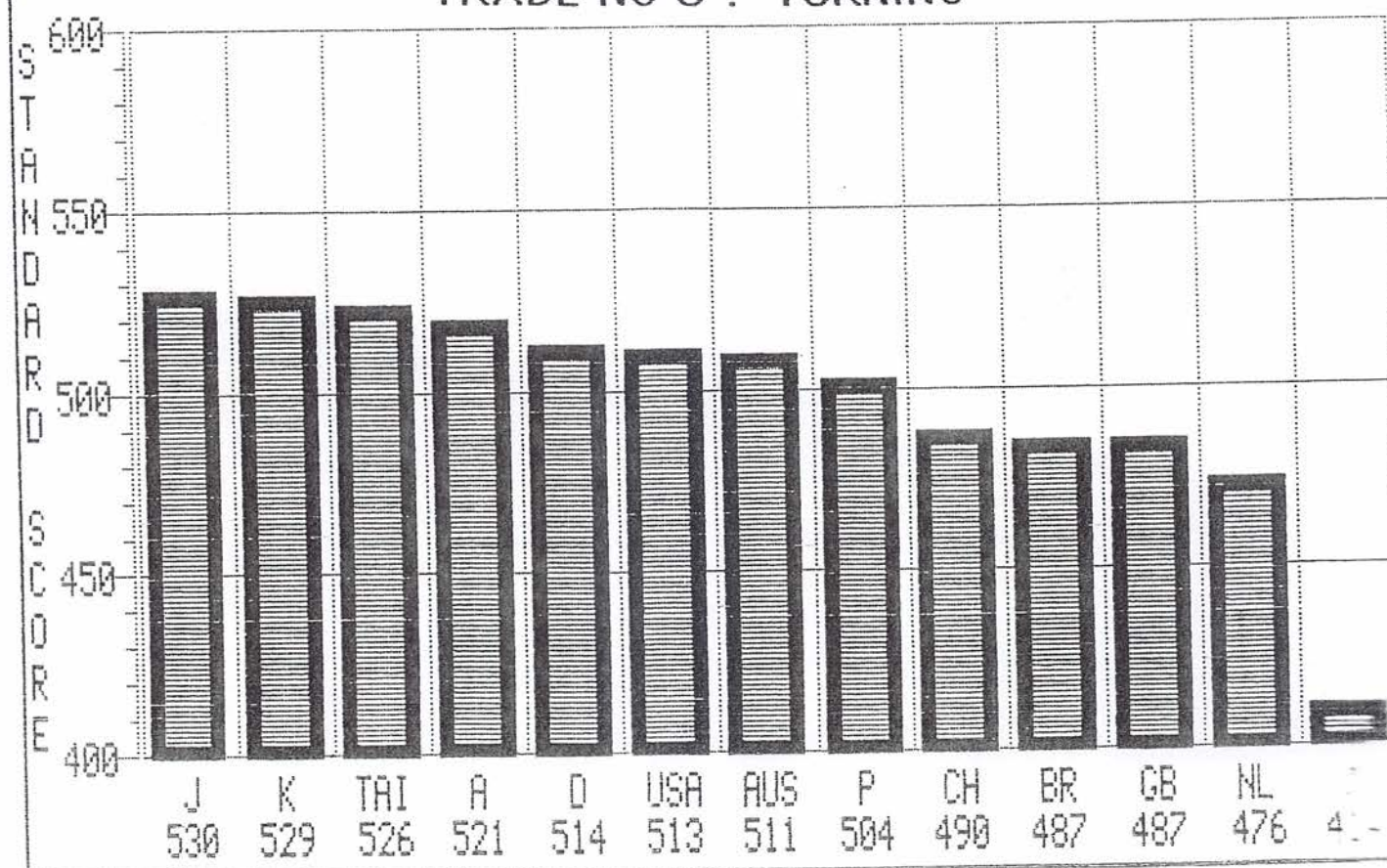
TRADE NO 4 : WATCH MAKING



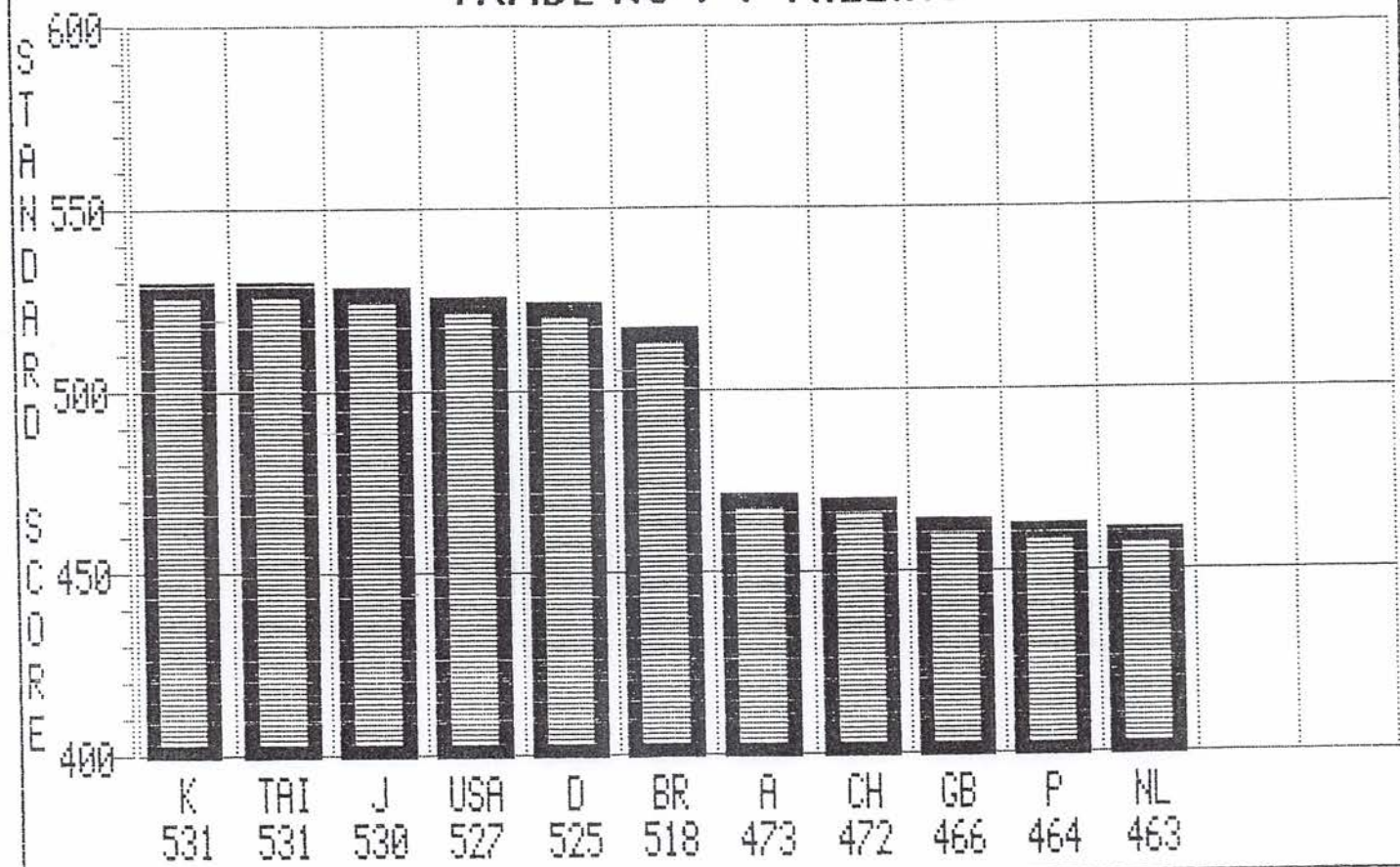
TRADE NO 5 : ENGINEERING DRAWING



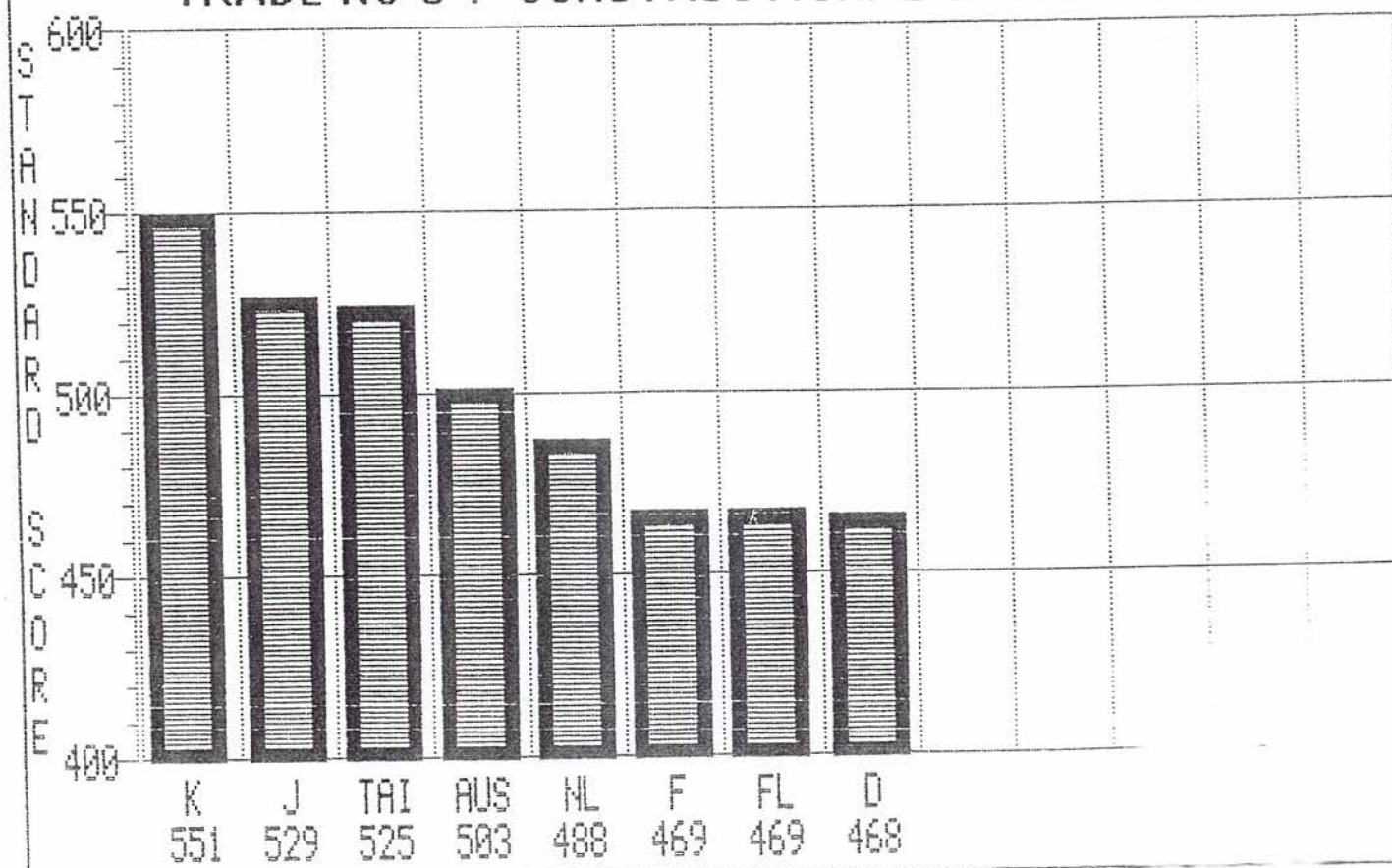
TRADE NO 6 : TURNING



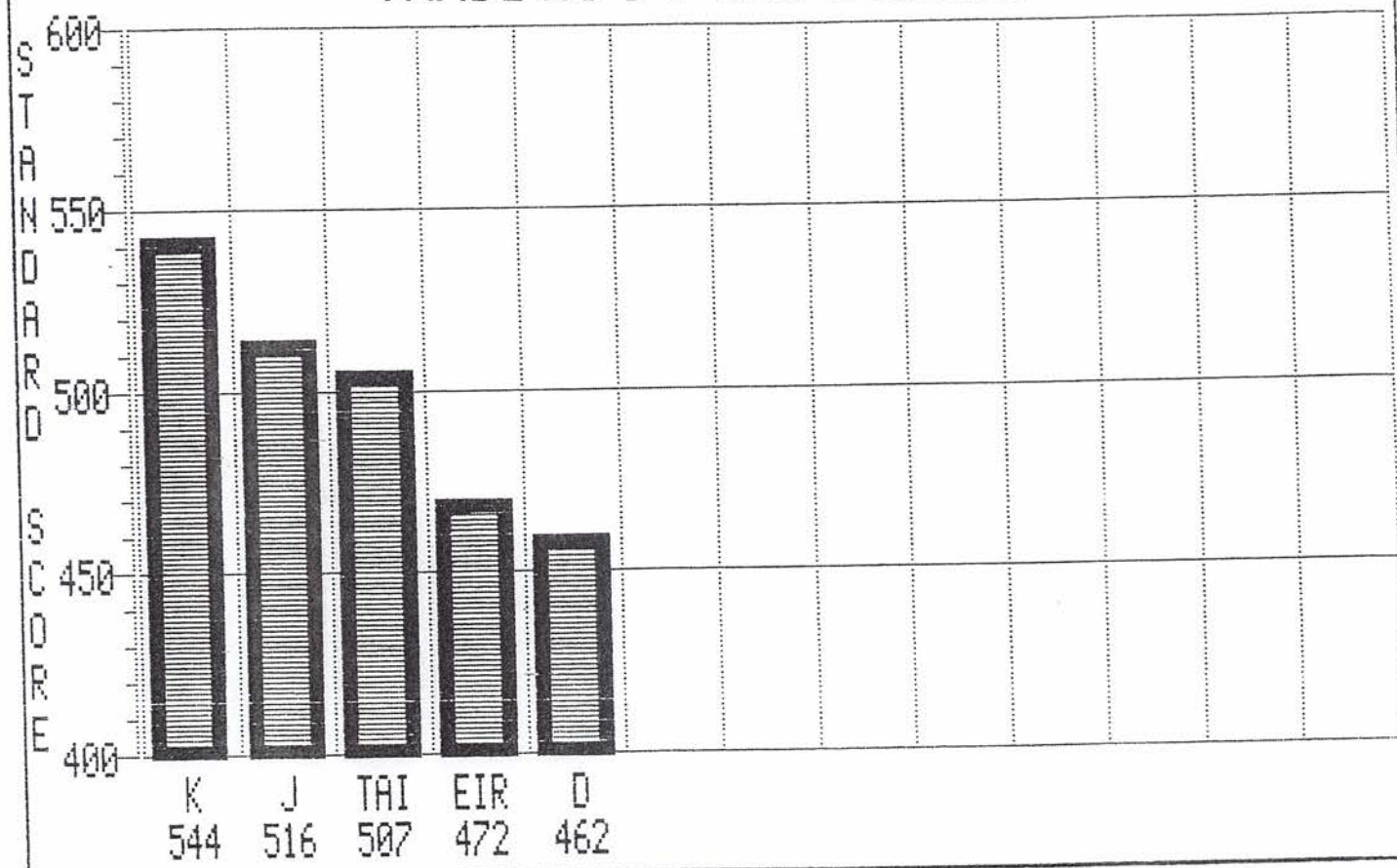
TRADE NO 7 : MILLING



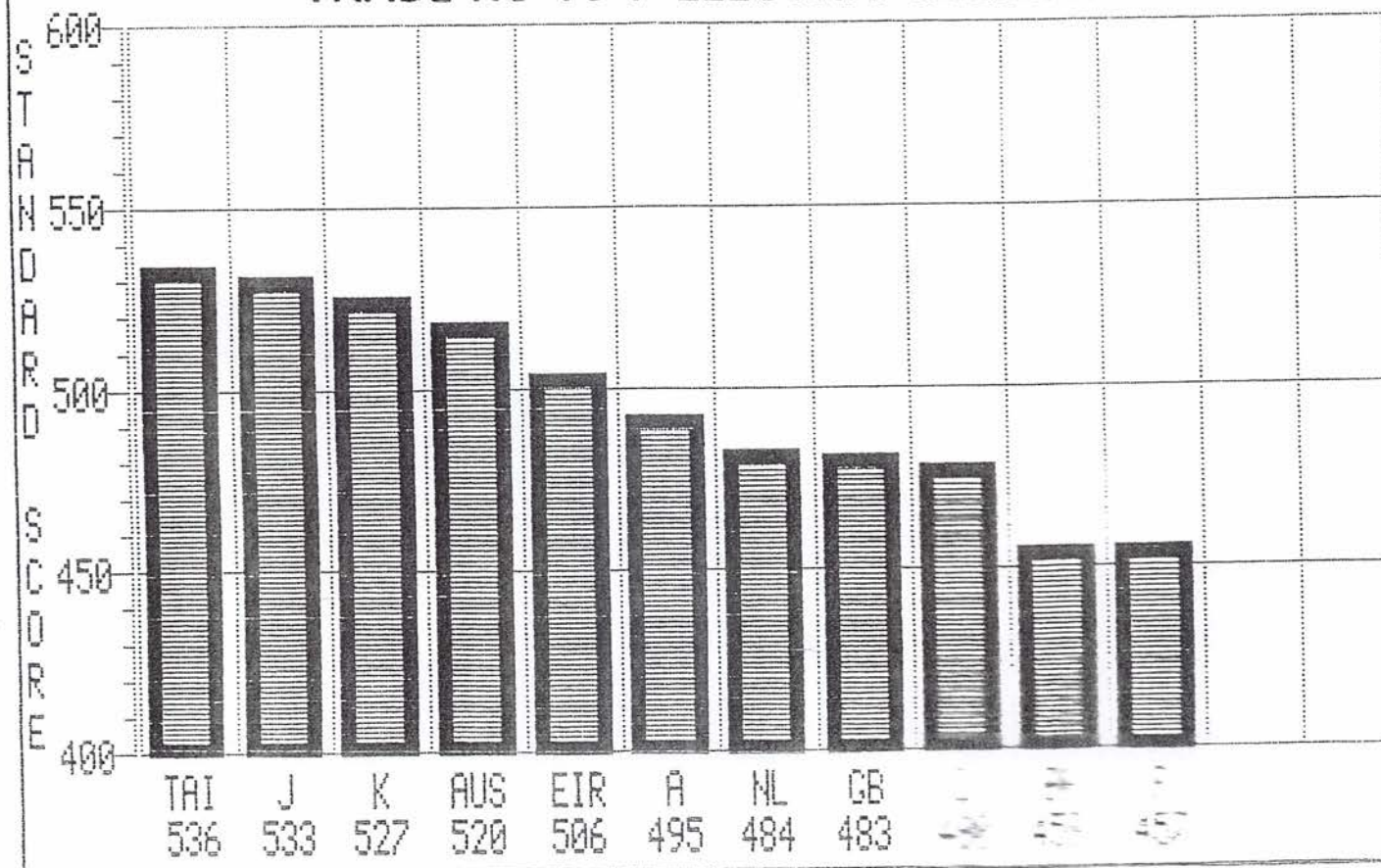
TRADE NO 8 : CONSTRUCTIONAL STEEL WORK



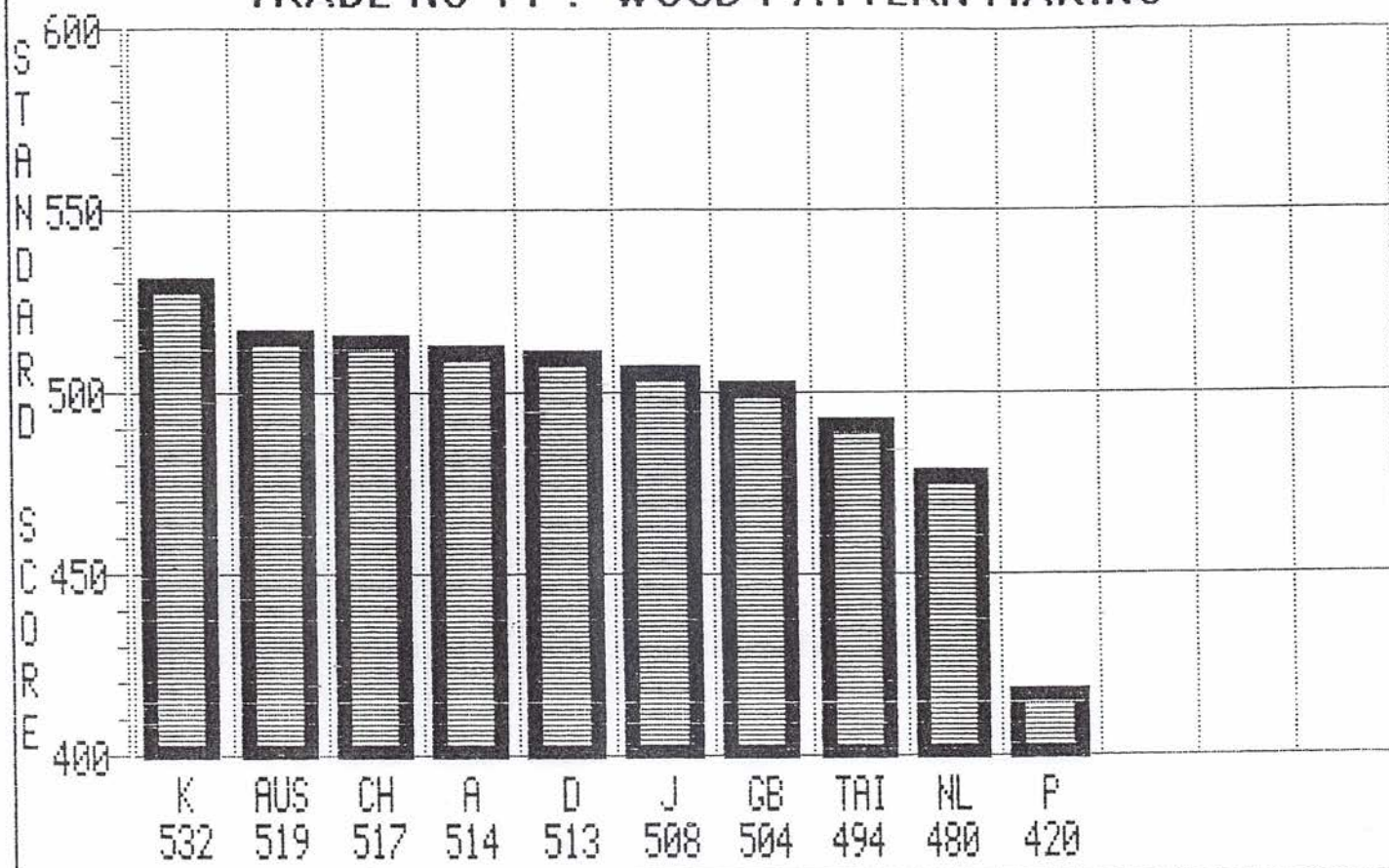
TRADE NO 9 : GAS WELDING



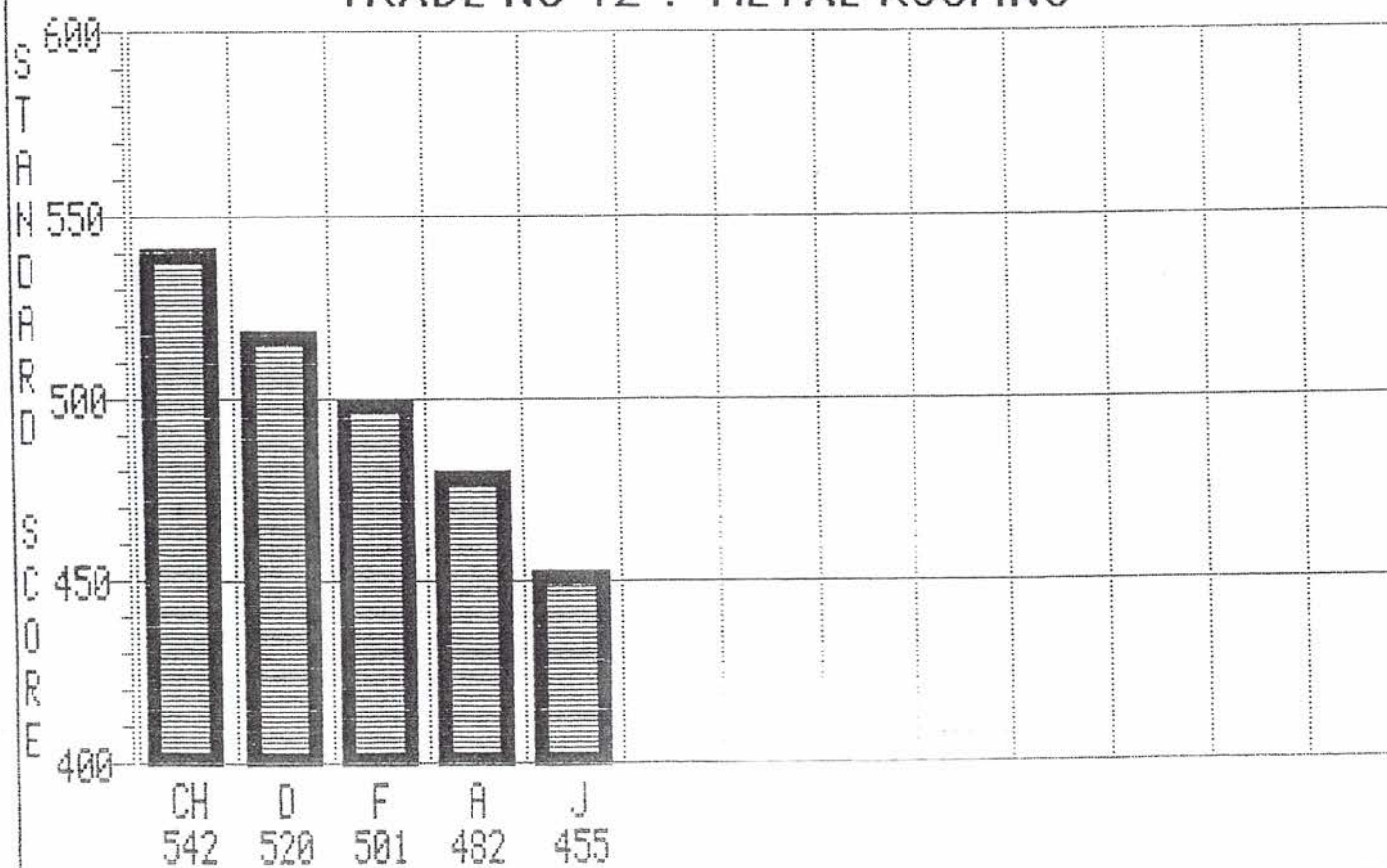
TRADE NO 10 : ELECTRIC WELDING



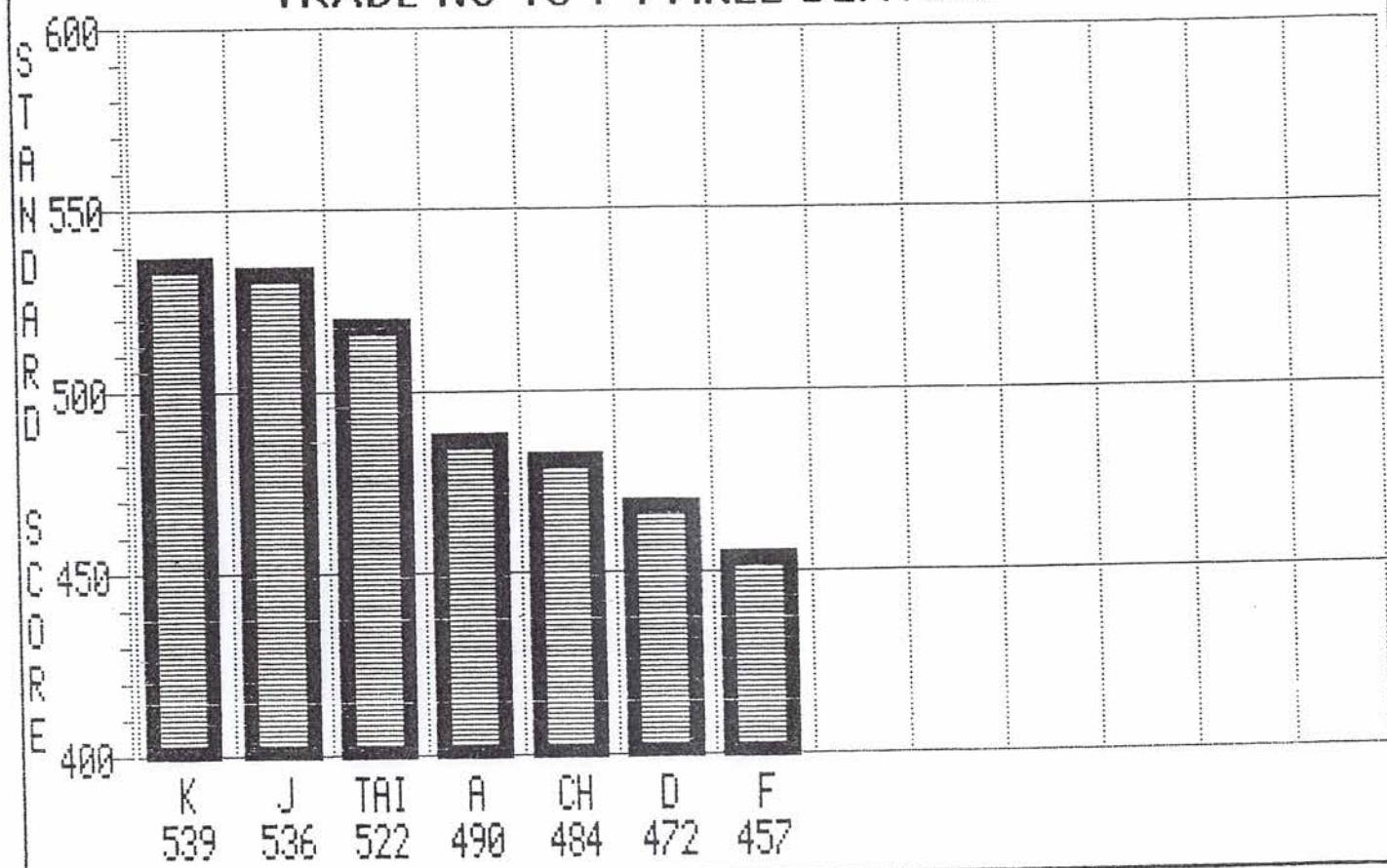
TRADE NO 11 : WOOD PATTERN MAKING



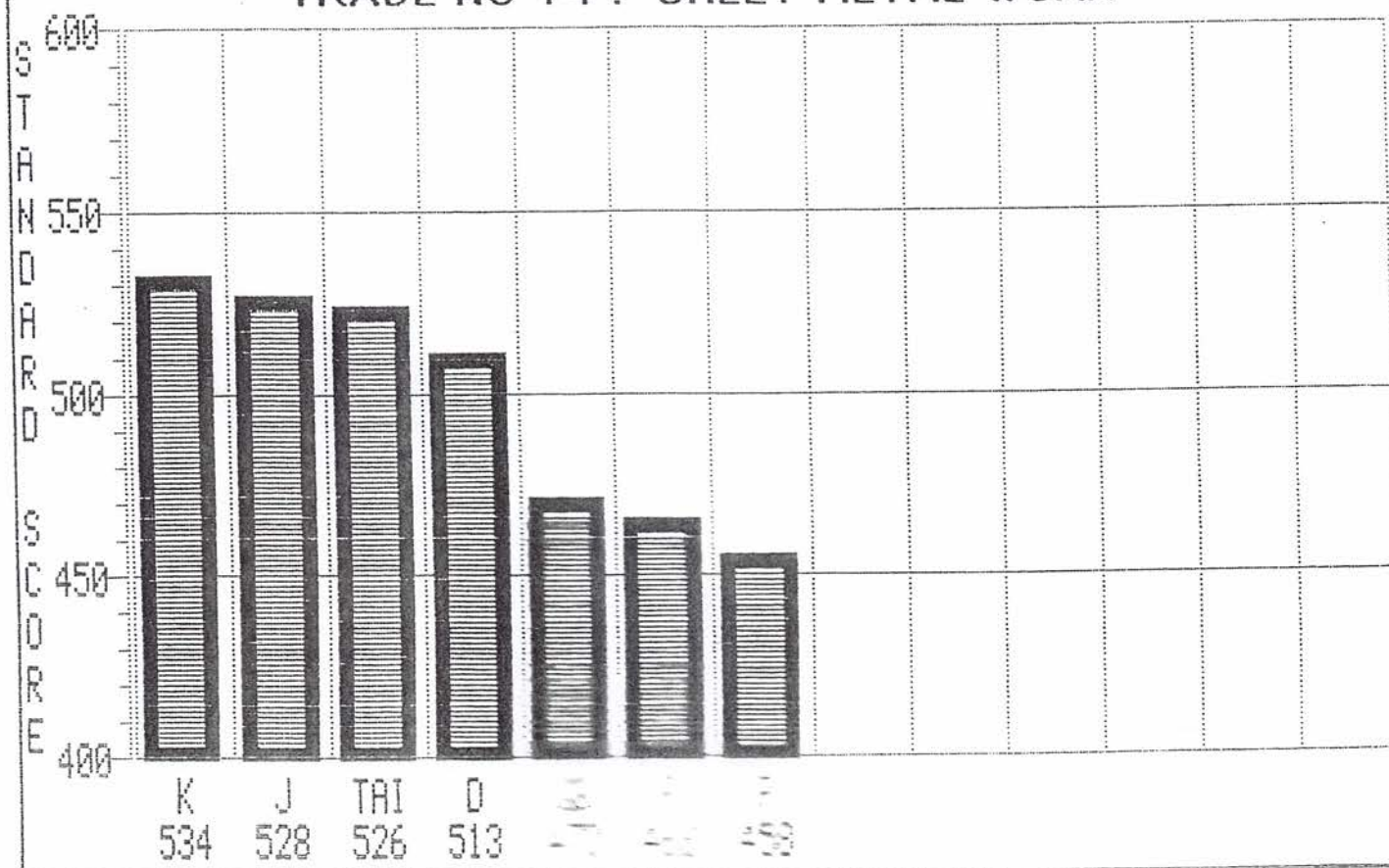
TRADE NO 12 : METAL ROOFING



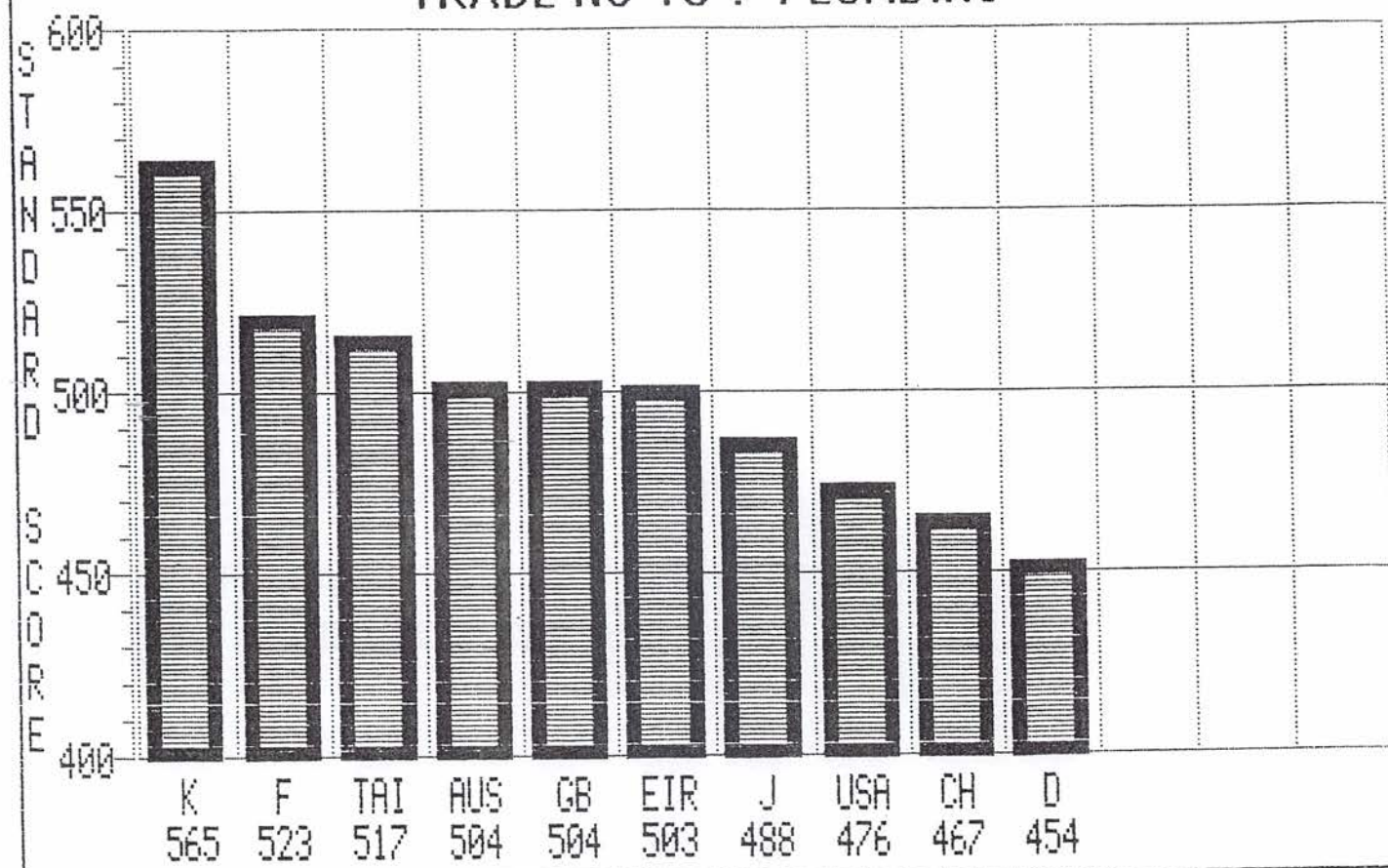
TRADE NO 13 : PANEL BEATING



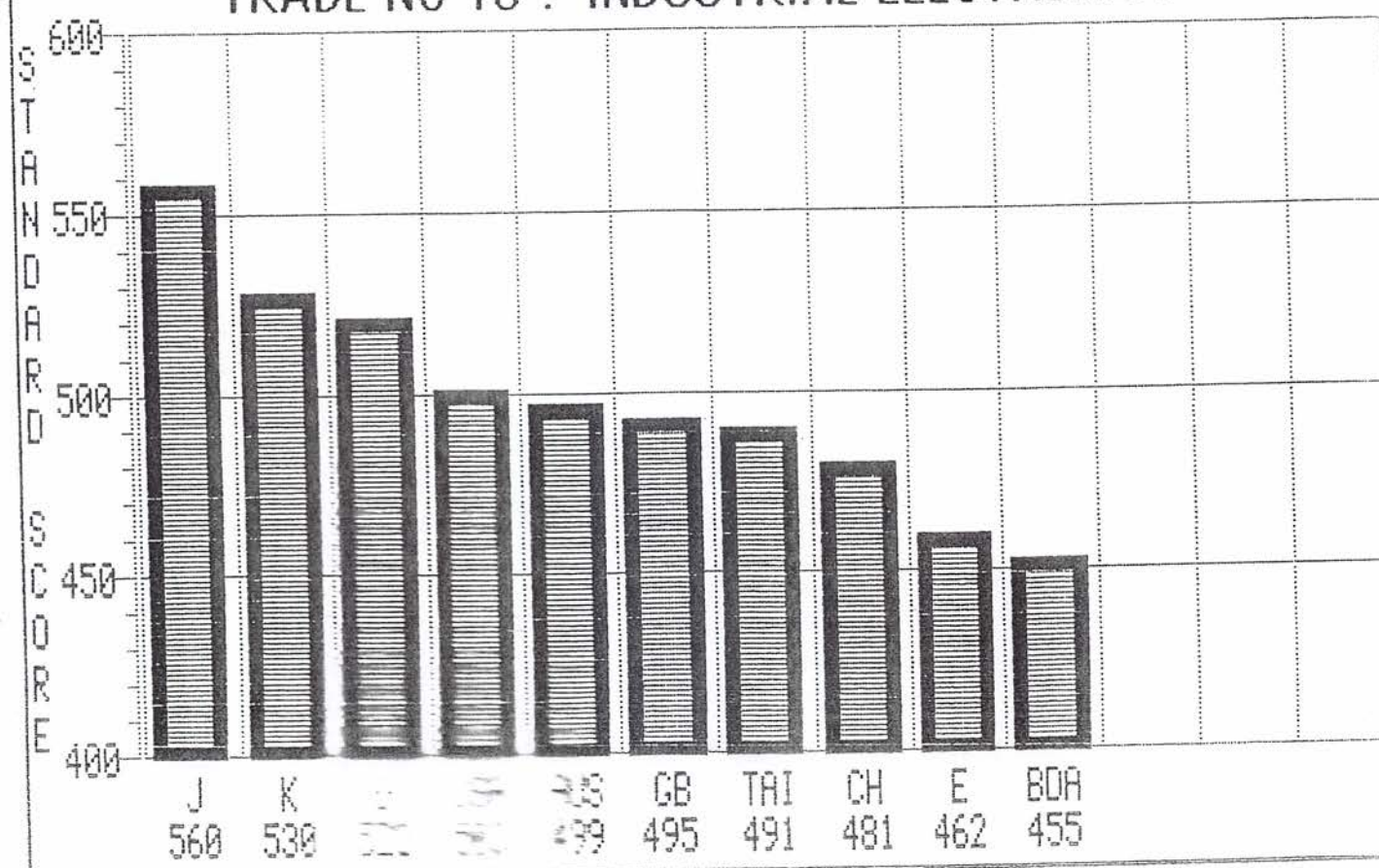
TRADE NO 14 : SHEET METAL WORK



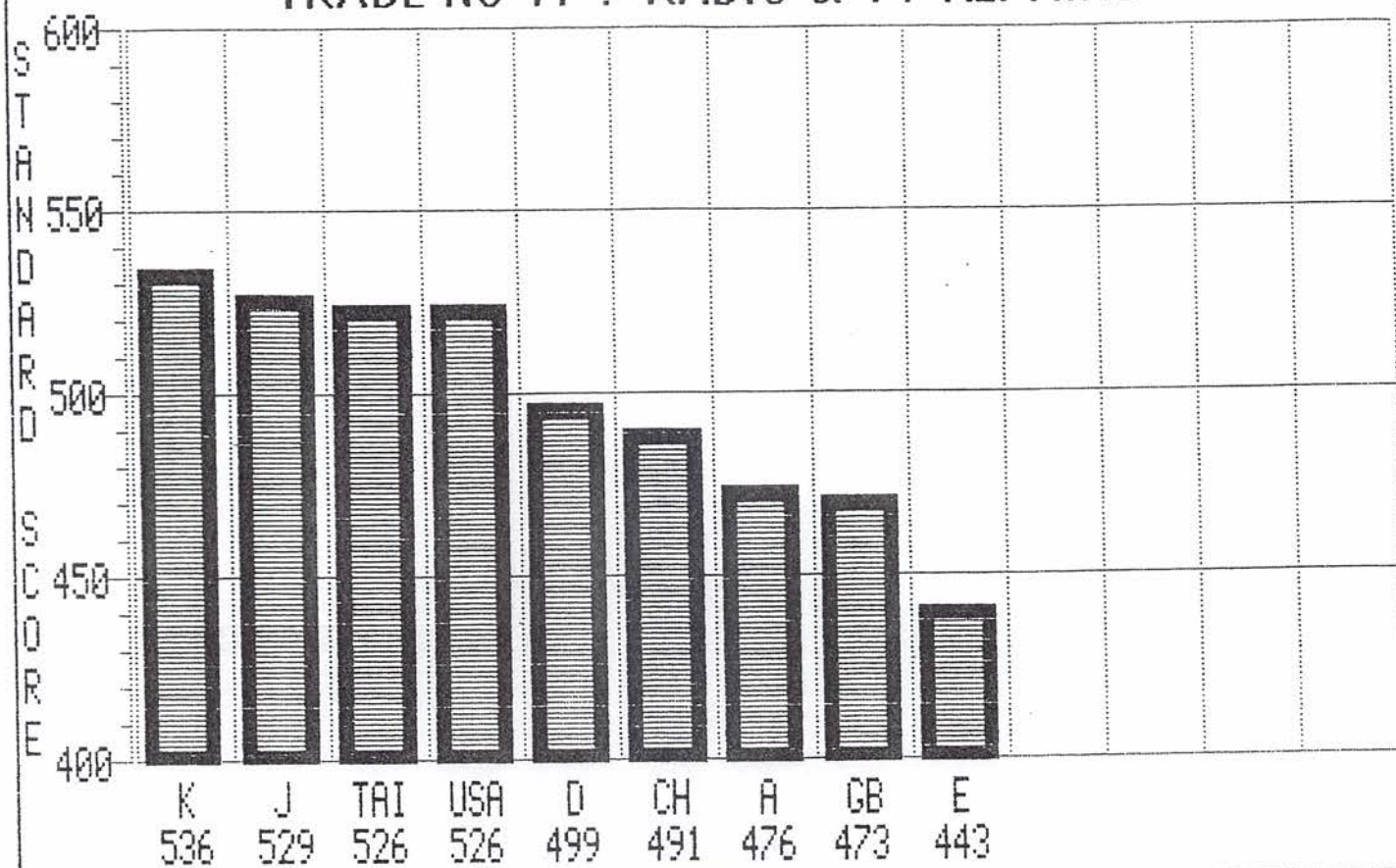
TRADE NO 15 : PLUMBING



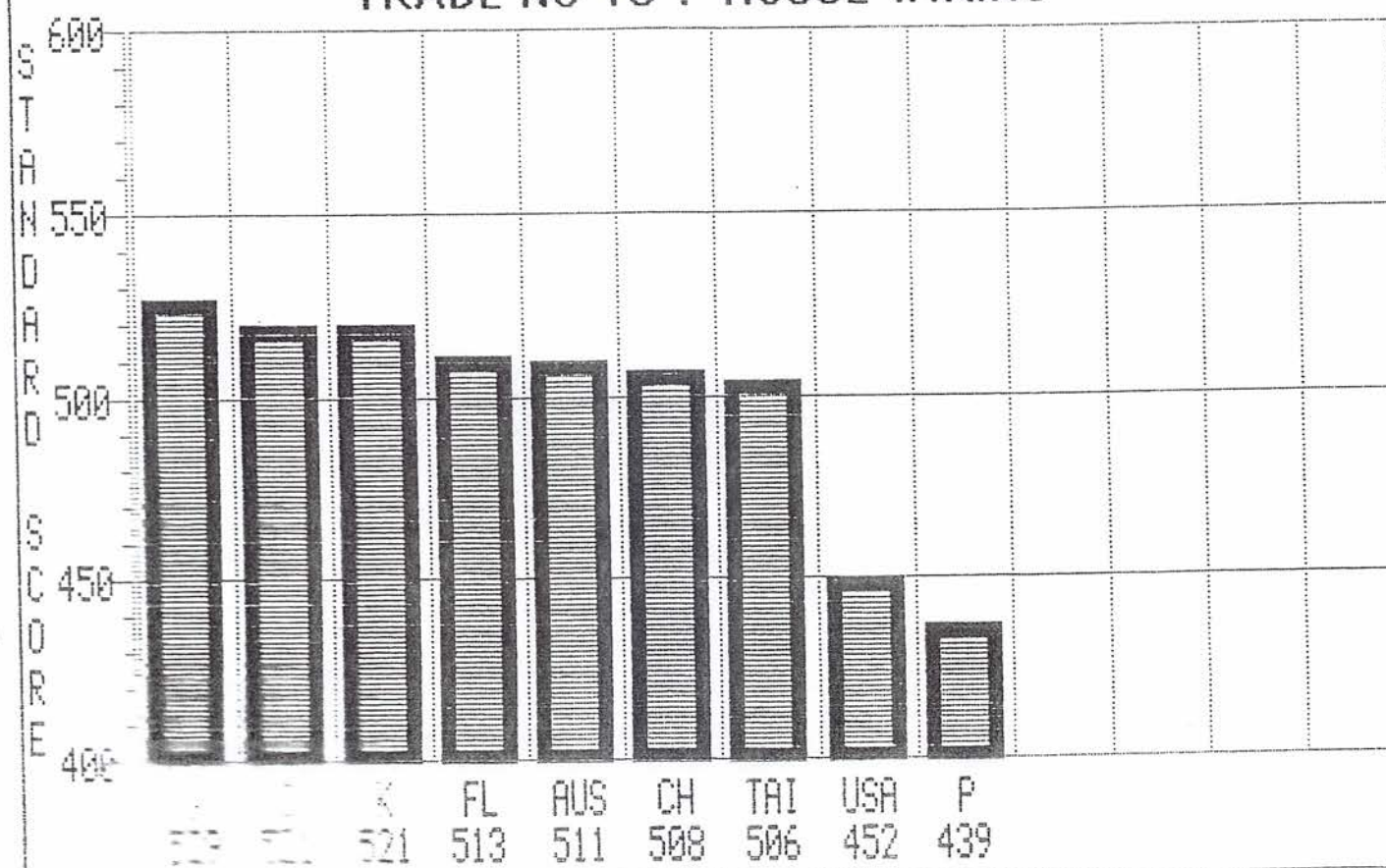
TRADE NO 16 : INDUSTRIAL ELECTRONICS



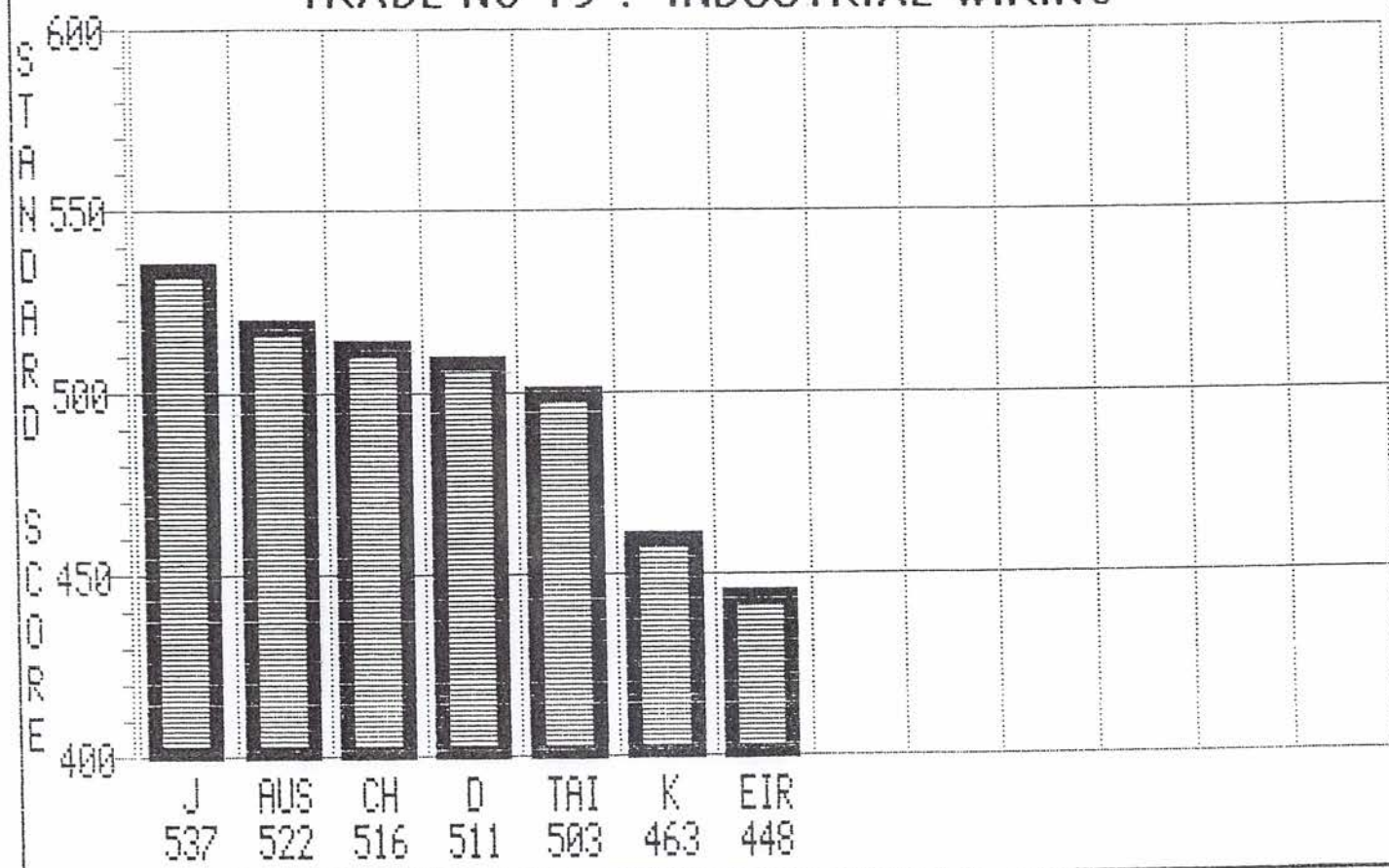
TRADE NO 17 : RADIO & TV REPAIRS



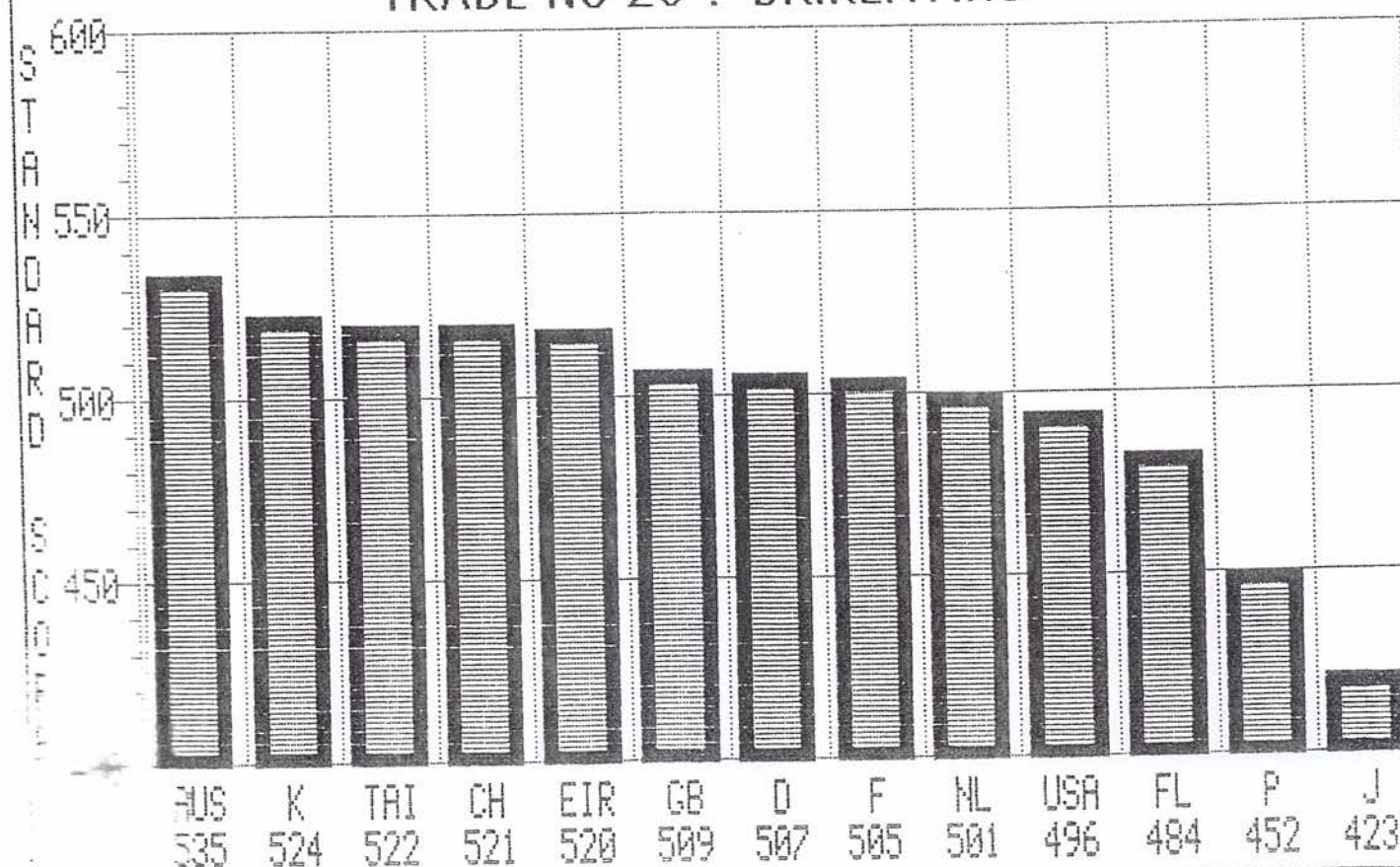
TRADE NO 18 : HOUSE WIRING



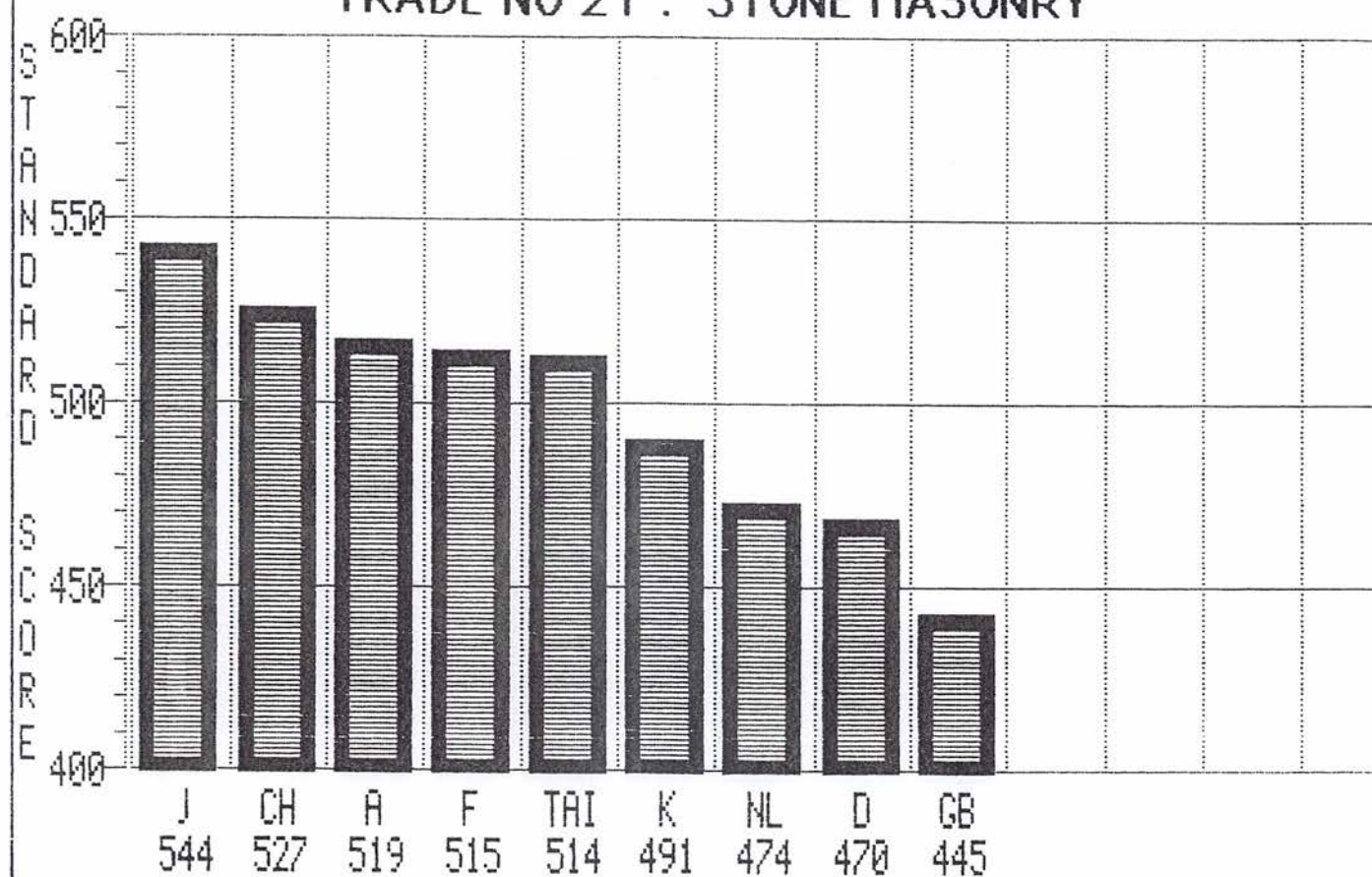
TRADE NO 19 : INDUSTRIAL WIRING



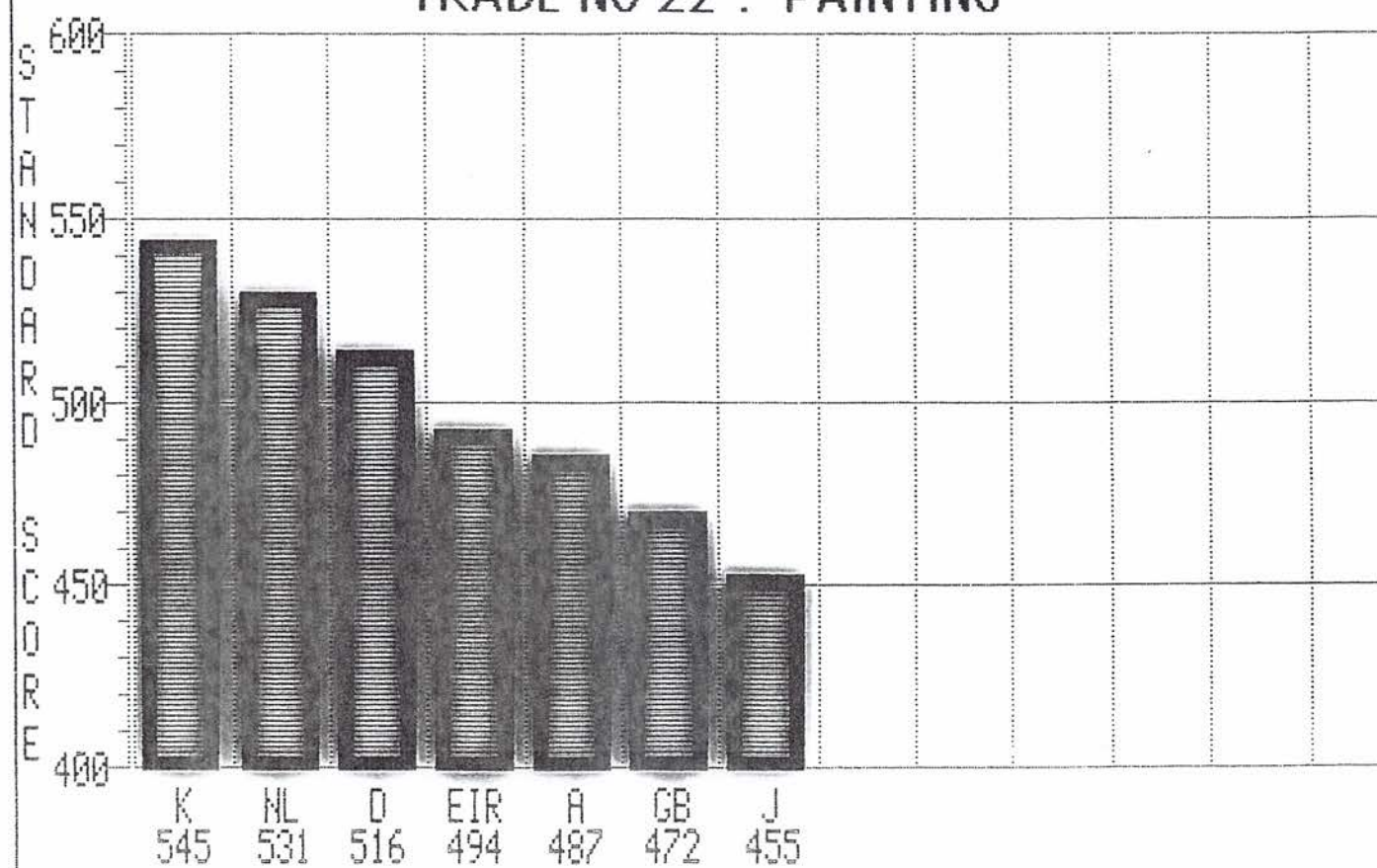
TRADE NO 20 : BRIKLAYING



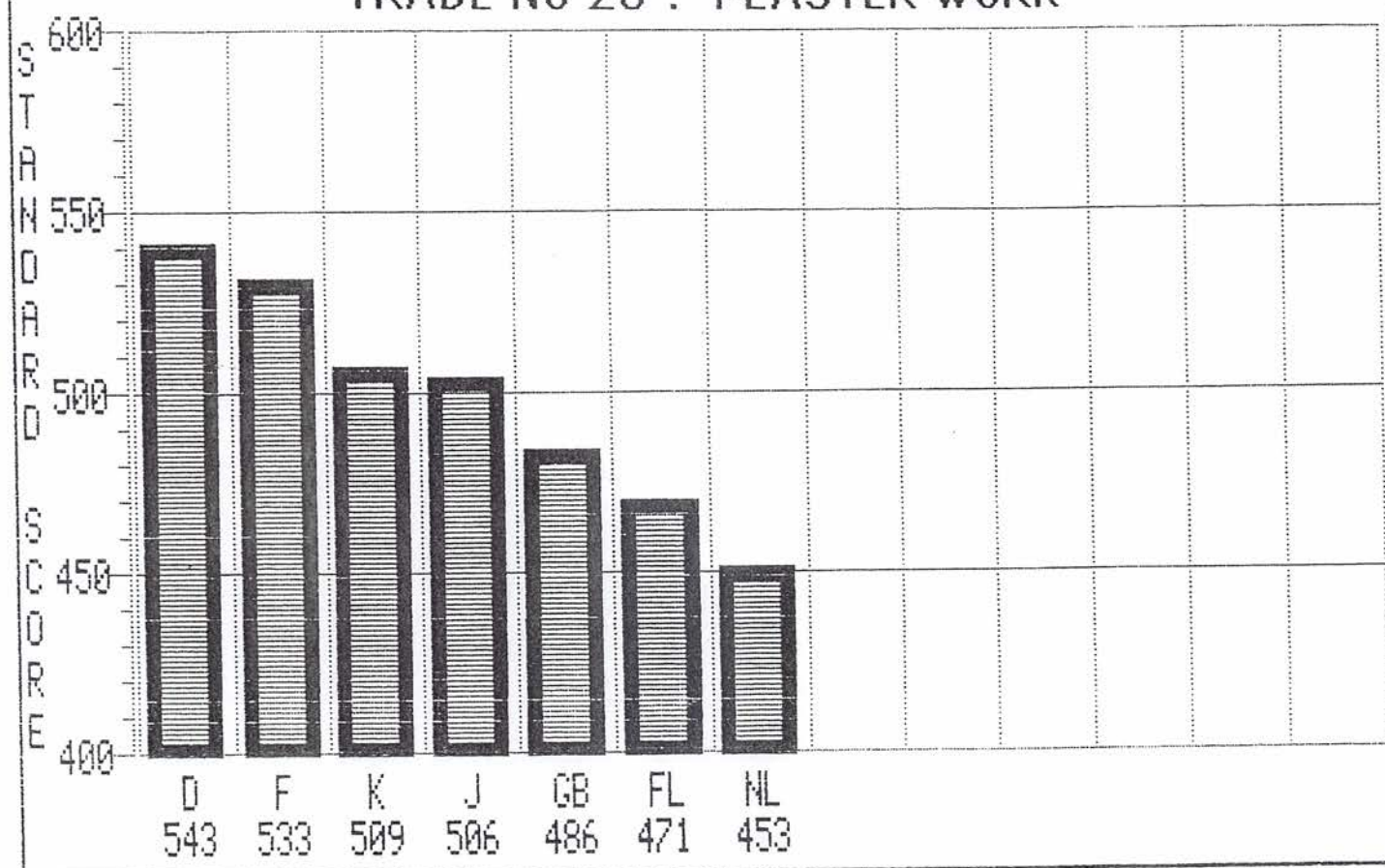
TRADE NO 21 : STONE MASONRY



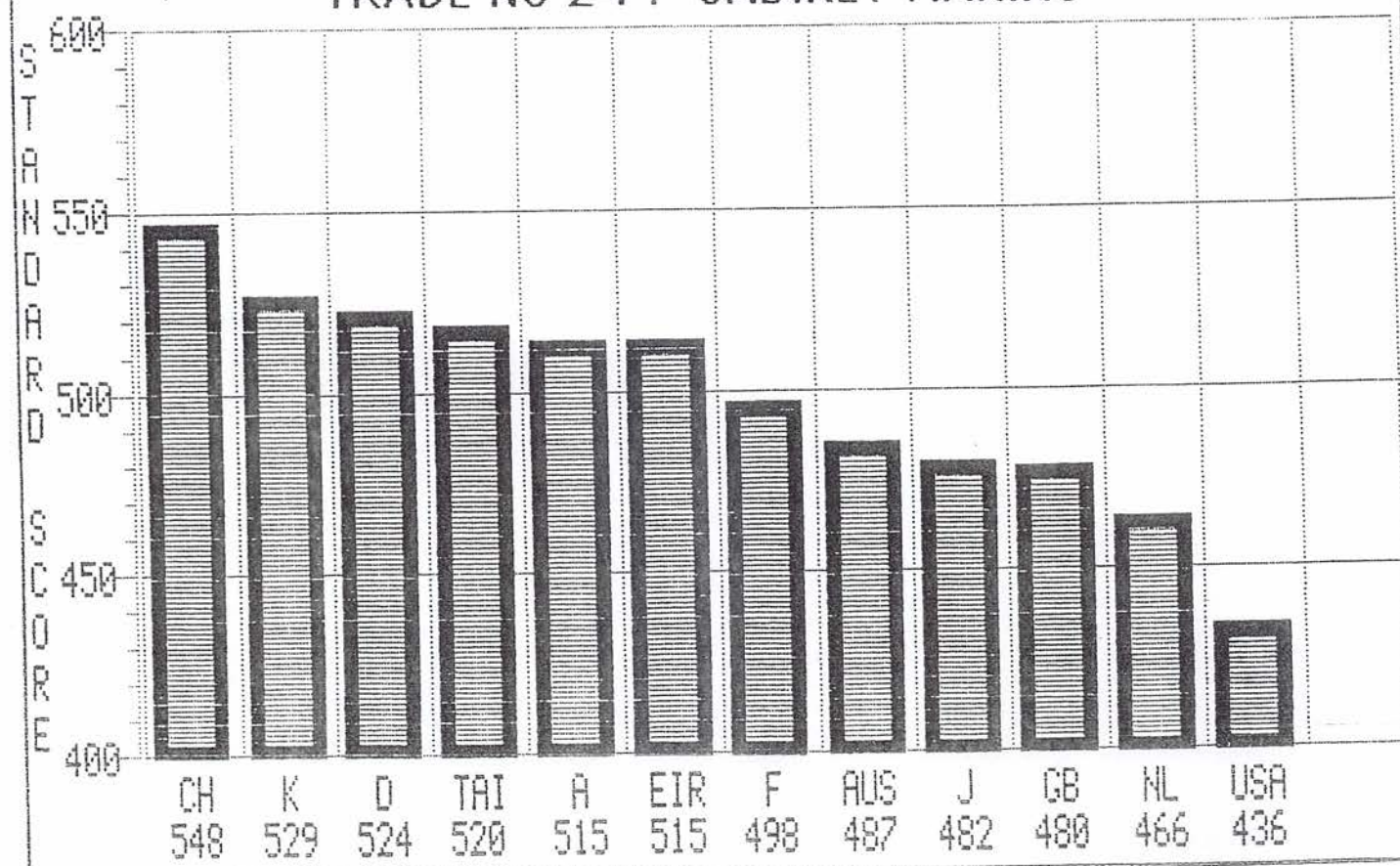
TRADE NO 22 : PAINTING



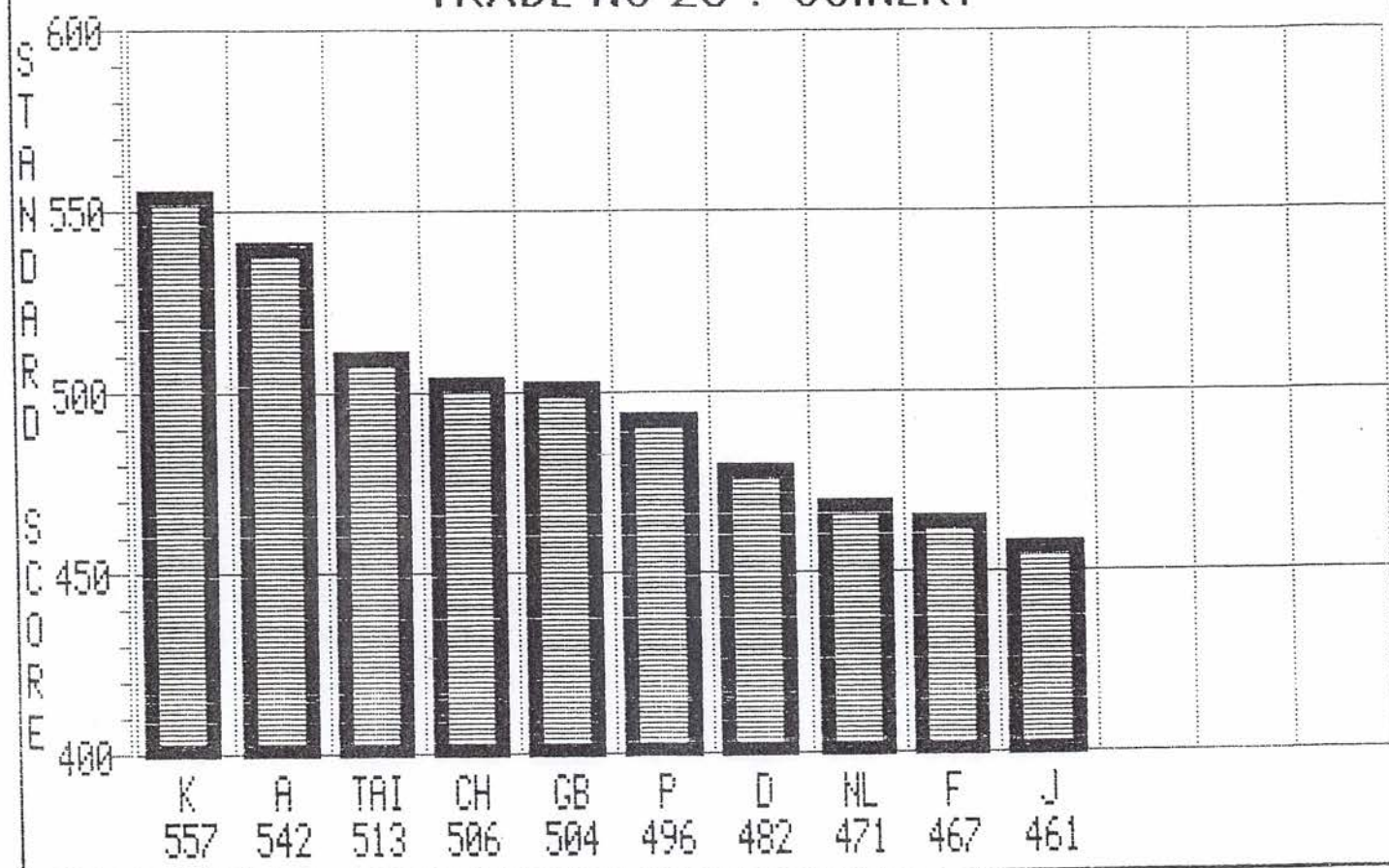
TRADE NO 23 : PLASTER WORK



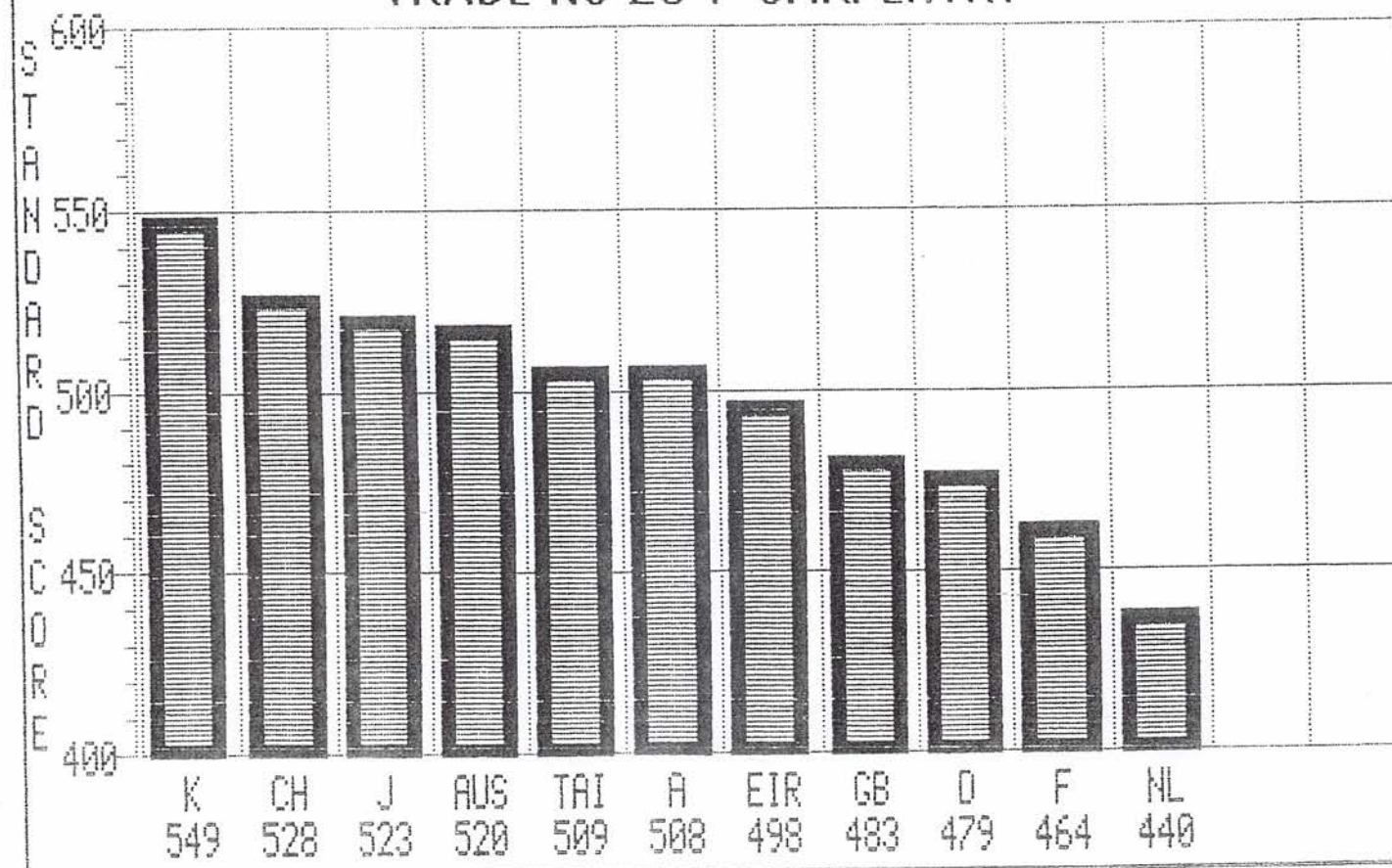
TRADE NO 24 : CABINET MAKING



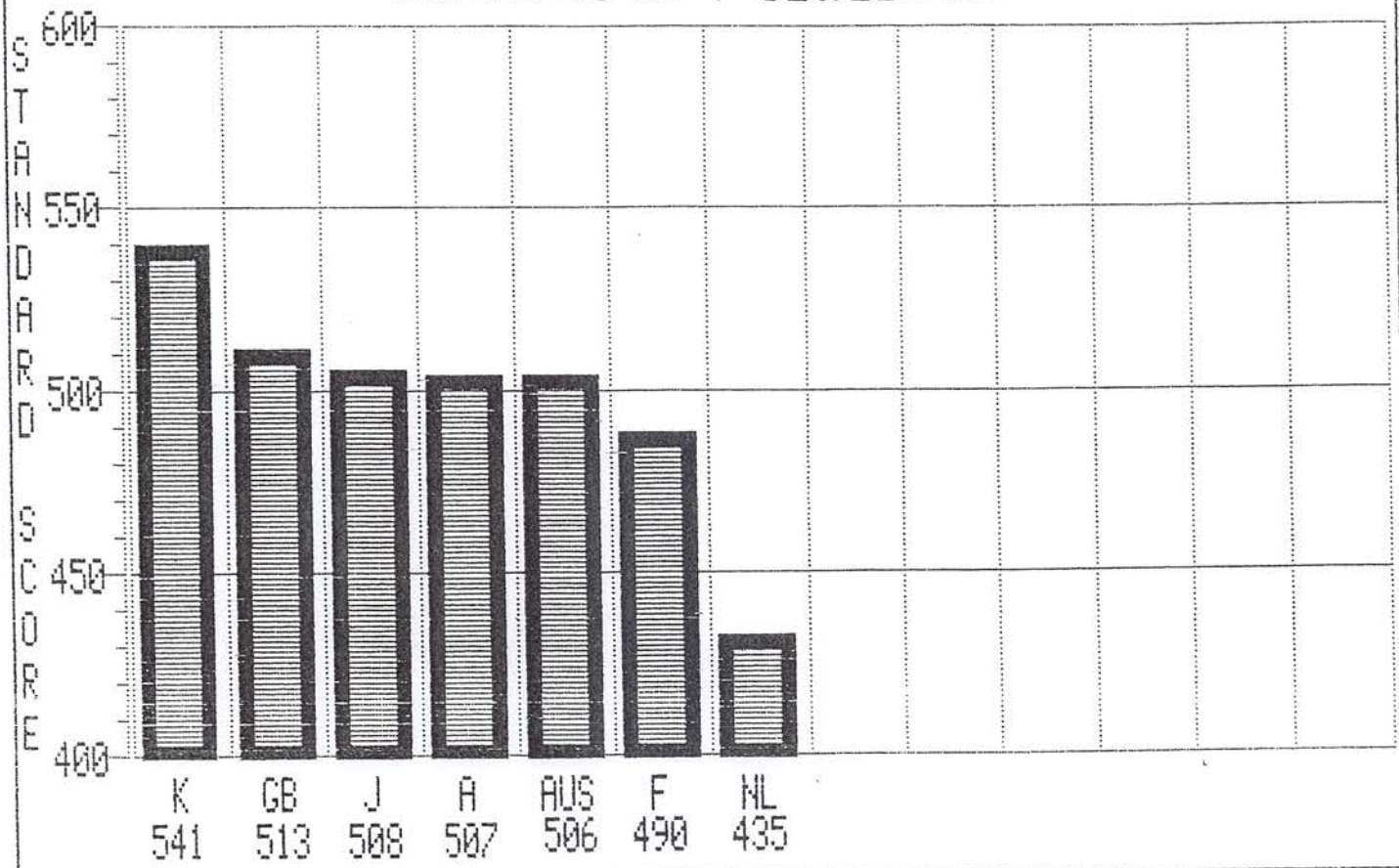
TRADE NO 25 : JOINERY



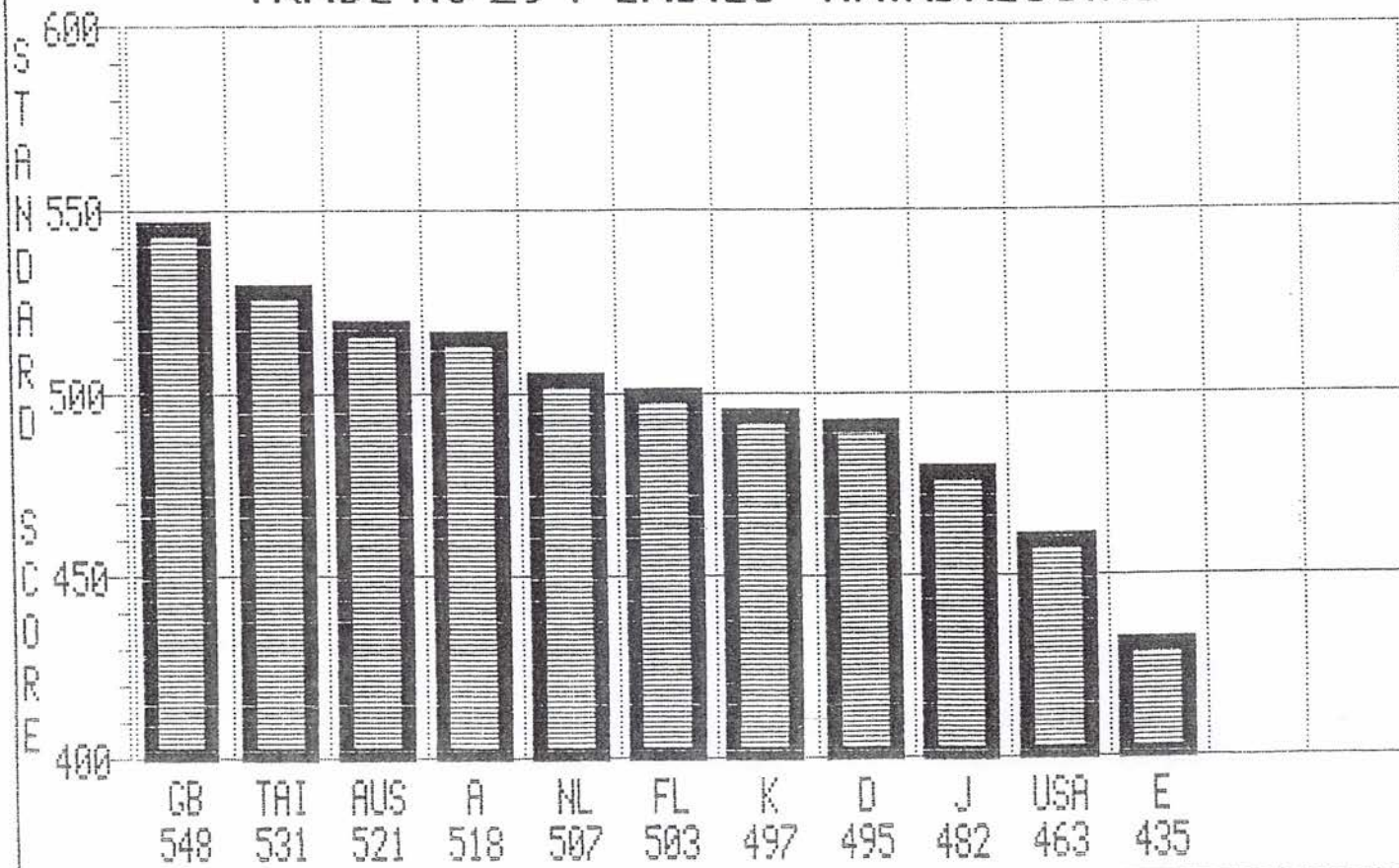
TRADE NO 26 : CARPENTRY



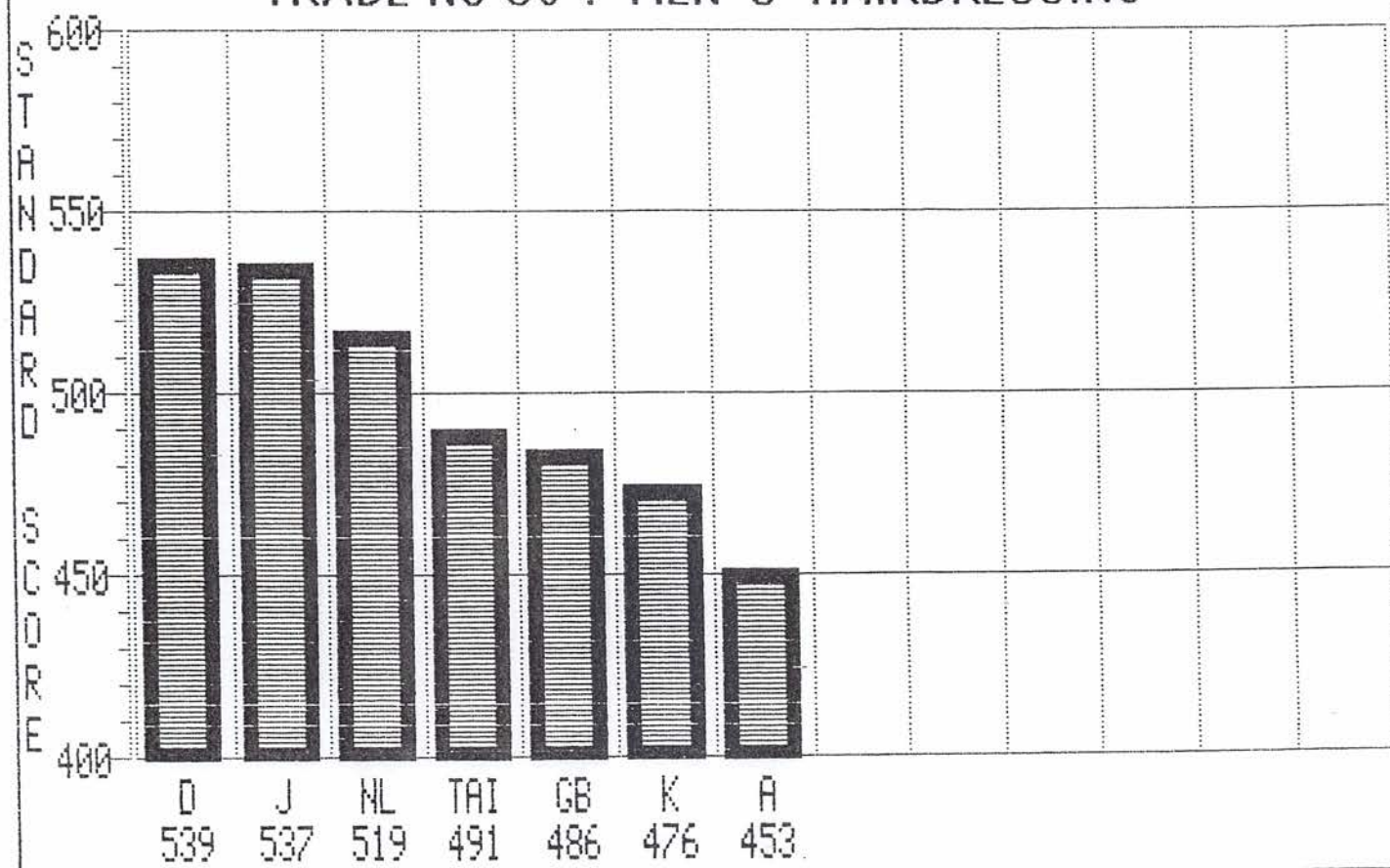
TRADE NO 27 : JEWELLERY



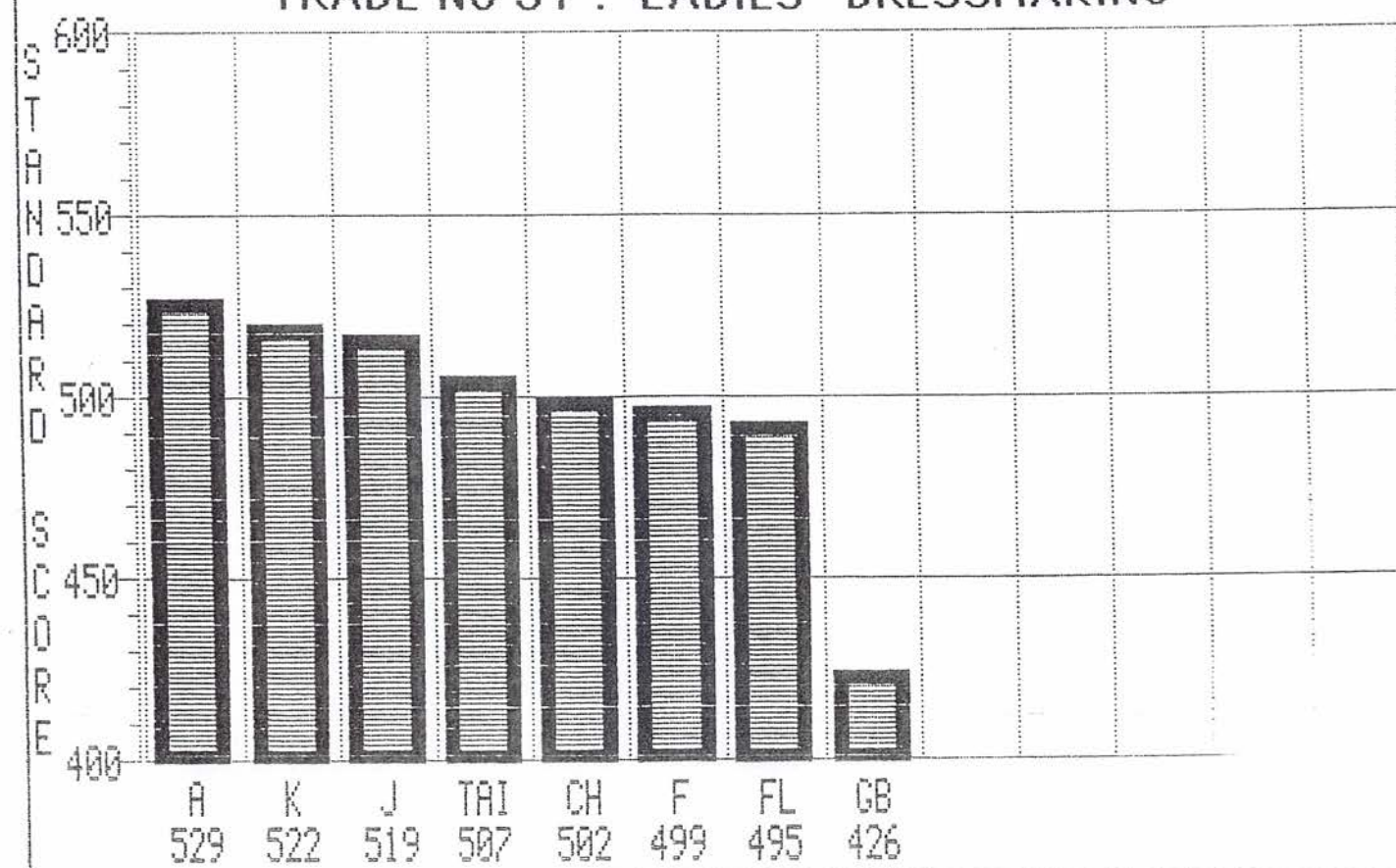
TRADE NO 29 : LADIES' HAIRDRESSING



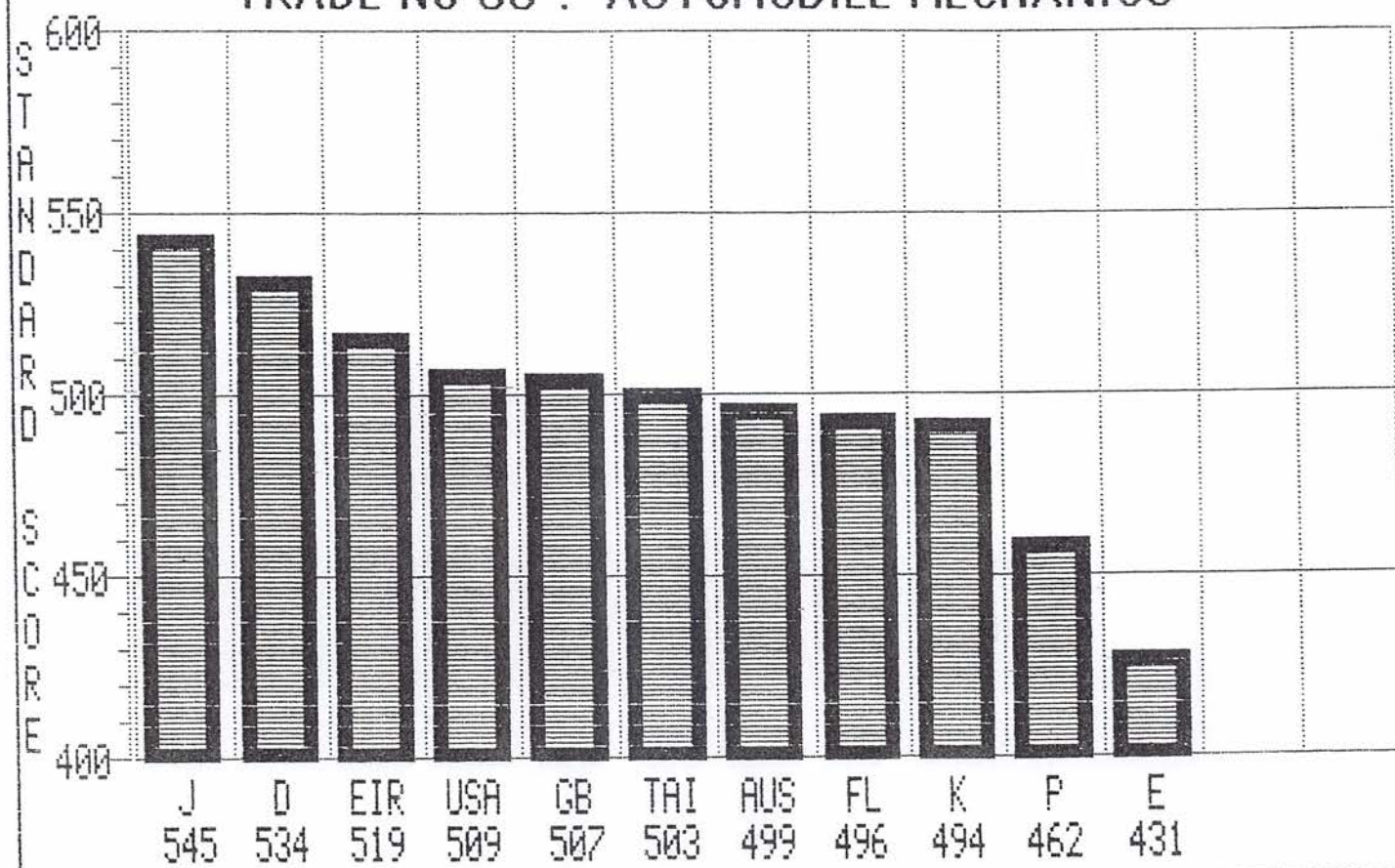
TRADE NO 30 : MEN' S HAIRDRESSING



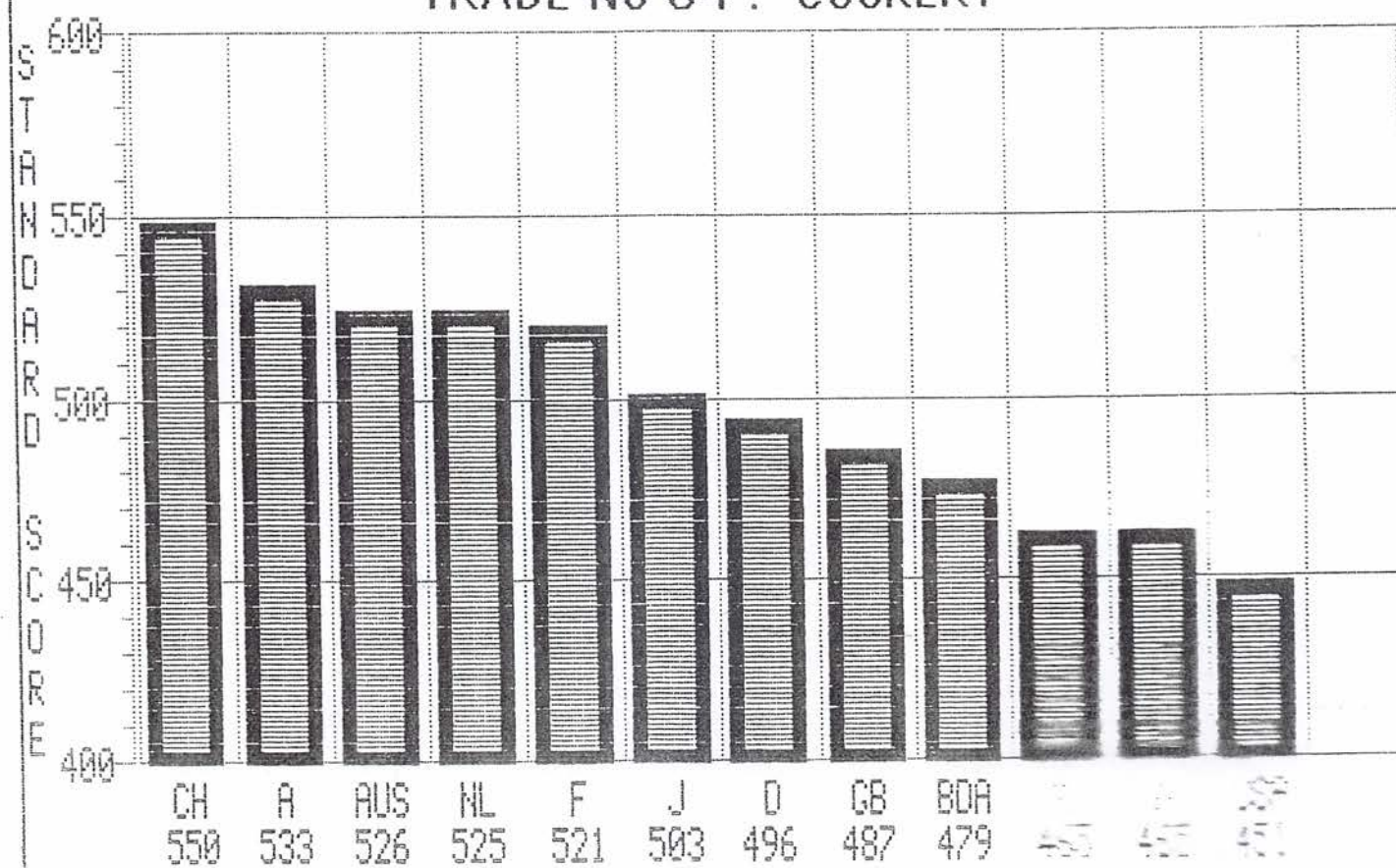
TRADE NO 31 : LADIES' DRESSMAKING



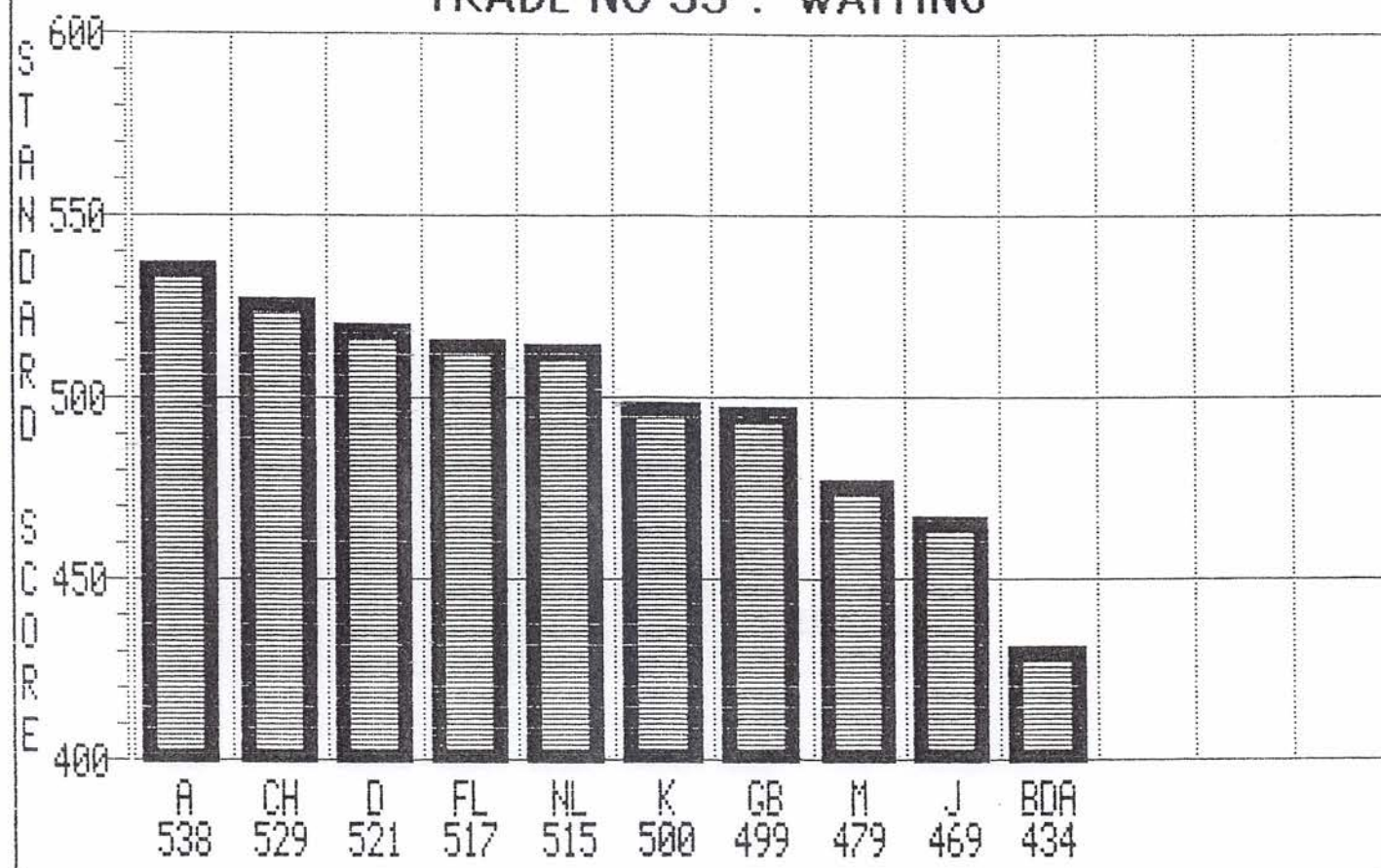
TRADE NO 33 : AUTOMOBILE MECHANICS



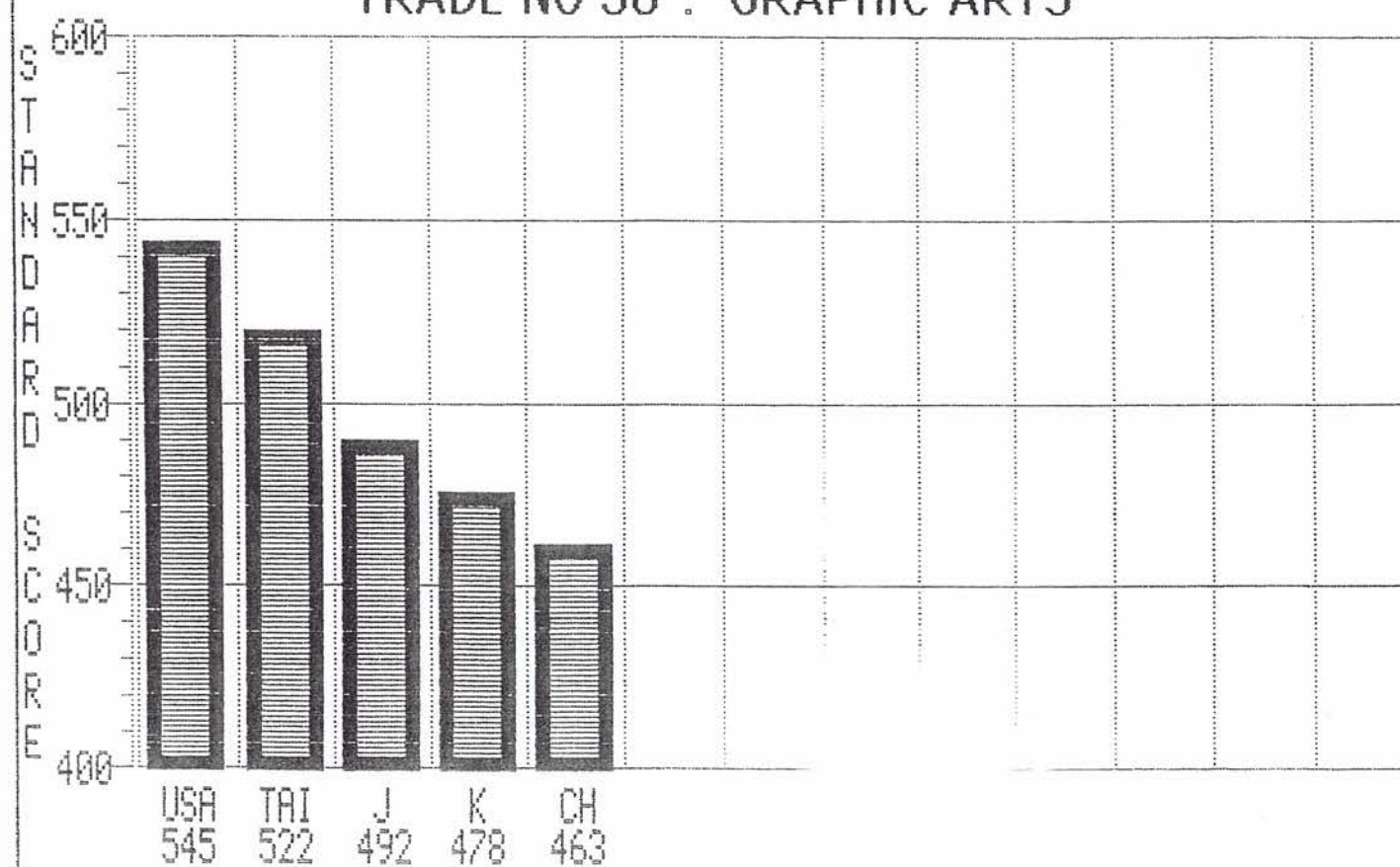
TRADE NO 34 : COOKERY



TRADE NO 35 : WAITING



TRADE NO 36 : GRAPHIC ARTS



COMPUTATION OF STANDARD SCORES

RAW SCORES : $X_1 \ X_2 \ X_3 \ X_4 \ X_5 \ \dots \ X_n$

1:

AVERAGE: $\bar{X} = \frac{\sum X}{n}$

STANDARD DEVIATION: $S = \sqrt{\frac{\sum (X^2)}{n} - \bar{X}^2}$

2:

STANDARD SCORES : $Z_1 \ Z_2 \ Z_3 \ Z_4 \ Z_5 \dots \ Z_n$

$$Z_i = \left\{ \frac{X_i - \bar{X}}{S} \times 30 \right\} + 500$$