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FINAL REPORT

Workshop on

CONTAMINATION OF FOOD AND AGROPRODUCTS

Varaždin, Croatia

28th September – 1st October 2000

UNIDO Project No.: TF/GLO/00/105

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CONTENTS

Introduction.....	3
Background.....	3
Justification.....	4
Objectives.....	5
Organization.....	5
Lecturers and Participants.....	5
Information and Printed Material Distribution.....	6
Programme.....	6
Technical visit.....	7
Social Events.....	7
Accomodation.....	7
Budget.....	7
Results.....	8
Assessment.....	9
Project Proposal 1.....	10
Project Proposal 2.....	12
Annex 1: List of Participants	
Annex 2: Agenda	
Annex 3: Financial Report	
Annex 4: Evaluation of Questionnaires	

INTRODUCTION:

The International Centre for Science and High Technology (ICS) of the UNIDO, within the area of Pure and Applied Chemistry, with the aim of facing the problem of food and agroproducts contamination and to improve, in developing and emerging countries, the capacity building in environmental issues, has planned to organize a Workshop on “*Contamination of Food and Agroproducts*” for Central and Eastern European Countries, which has been scheduled to be held in Croatia on 28 September – 1 October 2000

ICS-UNIDO invited the Ministry of Health of Croatia to indicate a local counterpart in March 2000.

Because of a delay in identifying a local organizer by the Croatian counterpart, ICS-UNIDO approached the Institute for Medical Research and Occupational Health (IMI) in Zagreb, Croatia in August 2000, with an invitation to organize the Workshop on Contamination of Food and Agroproducts. In spite of the very short time available before the Workshop had to start, IMI accepted the organization with pleasure. It was agreed that the Workshop would be held in Varaždin on the dates initially suggested, i.e. 28th September – 1st October 2000.

The ICS-UNIDO Workshop was held under the auspices of:

- Ministry of Health of the Republic of Croatia
- Ministry of Agriculture and Forestry of the Republic of Croatia
- Ministry of Science and Technology of the Republic of Croatia

Representatives of the Ministry of Health of the Republic of Croatia (Ž. Slemenšek) and the Ministry of Agriculture and Forestry of the Republic of Croatia (Đ. Majurđžić) participated at the Workshop.

BACKGROUND

Contamination of air, soil and waters due to different human activities results with contamination of food and agroproducts with a wide range of toxic compounds (such as chlorinated solvents, PCBs, heavy metals and other stable chemicals) and pose serious risks for human health.

Heavy and sometimes uncontrolled use of pesticides in agricultural practice can induce diet-mediated diseases due to the contamination of foods and agroproducts. In addition, potential

undesirable components arising in the food chain pose a continuously evolving challenge to the safety of agroproducts with the enhancement of industrial competitiveness in the development and use of innovative tools for production, storage and distribution that can contribute to consumer health.

New techniques and methodologies have been developed for the quality control of food products and many of them have proved to be very promising to maximize their quality and safety.

This Workshop was organized with the aim of facing the problem of food and agroproducts contamination and to improve, in developing and emerging countries, the capacity building in environmental issues.

JUSTIFICATION

The increase of food production has led to large sections of the food chain becoming contaminated. Although some of the reported increase in contamination is due to better detection and recording, it is undoubtedly a real problem.

In order to assure the safety and integrity of the food supply, control of food chain contaminants, evaluation of sources of contamination and risk assessment are introduced worldwide quantifying risk factors and optimizing methods for detecting undesirable components.

The introduction and implementation of new quality control systems for food and agroproducts, together with a proper planning and management of food production, storage and distribution will provide a substantial input to the reduction of risks related to contaminated food consumption.

Therefore, there was a need of enhancing activities in this field particularly in Central and Eastern European countries (CEE) which are in transition process trying to reach EU standards. International cooperation and the correspondent support promoting the development and application of food and agroproducts quality control methodologies in developing countries and contributing to strengthen national capabilities with adequate programmes and initiatives for local experts is necessary in this region.

OBJECTIVES

Provide the participants from the region with updated knowledge on modern methodologies for assuring safety and quality of food, envisaging their application in CEE countries in order to strengthen the national expertise in mastering, using and further developing quality control systems for local applications and adaptations;

Review, assess and collect the latest information on food chain contamination and on the methodologies for the assessment of food quality and food chain management;

Stimulate international research and technology transfer and enhance international co-operation through possible joint or follow-up projects and feasibility studies by identifying regional R&D Centers in developing countries through contacts established with the participants of the workshop.

ORGANIZATION

The Workshop was jointly organized by the Institute for Medical Research and Occupational Health (IMI), Zagreb, Croatia, and the International Centre for Science and High Technology (ICS-UNIDO), Trieste, Italy

The local organization of Workshop was realised by Dr. Blanka Krauthacker (Local organizer, IMI, Zagreb, Croatia)

Accommodation and travel of participants, lecture room with equipment and printed material were organized and prepared by the local organizer.

LECTURERS AND PARTICIPANTS

ICS and IMI jointly prepared the list of lecturers and international participants and ICS sent out invitations. IMI prepared list of national participants and sent invitations. The list of lecturers and participants of the Workshop is in Annex 1 of this report.

Besides two representatives of ICS-UNIDO (S. Miertus and A. Lodolo), eight lecturers from seven countries (Belgium, Canada, Croatia, Italy, Slovak Republic, Slovenia, and UK) participated at the Workshop. International participants (13) were from Albania (3), Bulgaria (1), Hungaria (3), Macedonia(1), Latvia (1), Romania (1) Slovenia (2) and from the Slovak

Republic (1). There were 41 Croatian participants. Invited participants from Bosnia and Hercegovina, Estonia, Czech Republic and Poland did not accepted the invitation. Alltogether 65 participants attended the Workshop.

Primarily participants were from governmental institutions (research/control institutions 40 participants, university 4 participants), but 21 participants were from the industry.

INFORMATION AND PRINTED MATERIAL DISTRIBUTION

ICS and IMI as local organizer prepared Aide Memoire, provisional Agenda, provisional List of participants and Instructions for country report preparation. It was agreed that the Book of Abstract would be prepared before the Workshop and that the full length papers will be published in the Archives of Industrial Hygiene and Toxicology published by IMI. Therefore the Instructions for abstracts preparation and full length paper preparation were prepared by the IMI and sent to lecturers and international participants. Before the Workshop IMI distributed to participants details on travel and accomodation.

Final Agenda, List of participants, Book of Abstracts and some tourist information were provided to participants upon registration. During the Workshop handouts of all lectures, institutional and country reports were distributed to all participants. Copies (free of charge) of Archives of Industrial Hygiene and Toxicology containing papers of lectures, institutional and country reports presented at the Workshop will be distributed to all participants of the Workshop after publication.

Preparation of the Book of Abstracts was financially supported by the Istituto Italiano di Cultura Zagabria, Zagreb, Croatia. The Book of Abstracts containing 24 abstracts of lectures, country and institutional reports is enclosed to this report.

PROGRAMME

The programme consisted of lectures given by the invited speakers, institutional and country reports, working groups and discussions. Detailed programme is listed in the Agenda enclosed as Anex 2. Chairmans were: A. Kočan, B. Krauthacker, A. Lodolo, S. Miertus E. Reiner, N. Rizov, and J. Švorc. There were ten lectures, eight country reports (Albania, Bulgaria, Croatia, Hungary, Macedonia, Romania, Slovak Republic, Slovenia) and four

institutional reports (Croatia, Latvia, Hungary). The discussions were held after each block of lectures/reports.

Two working groups were organized in order to generate the project proposals according to objectives pointed out during discussions. The rapporteurs of one group were B. Krauthacker and E. Panariti (Project Proposal 1), while of second group rapporteurs were E. Reiner and A. Kočan (Project proposal 2).

TECHNICAL VISIT

Varaždin, the baroque old town is located in the agricultural area and is the center of food industry. Therefore, the visit to the «KOKA» meat industry and to «VINDIJA» dairy and fruit juice industry was organized for all participants on 30th September from 9:00 to 12:30.

SOCIAL EVENTS

On 27th September a get-together party was organized for all participants who already arrived. Dinner for all participants was organized on 29th September. During get-together party and dinner food products donated by some food industries were also served.

ACCOMODATION

Accommodation of participants was organized in the hotel «TURIST» in Varaždin close to the city centre. The Workshop was held in the same hotel. Accommodation of participant was on the full board basis. For participants who did not need the accommodation (Local food industry and local Public Health Institute; 18 participants) meals were organized in the hotel.

BUDGET

The originally planned budget from ICS-UNIDO was of 25,000 USD, of which we received 20,000 USD (i.e. the 80%). The actual expenditure was of 12,393 USD (See Table 1 Annex 3 for the details). The lower expenditure was due especially to the much cheaper accommodation, and travel expenses of invited international lecturers and participants and also because 5 international participants were not able to participate due to short time and other

commitments. In any case, the quality of the workshop was high and all the goals were reached.

Concerning the leftover of 7,606.62 USD, they will be returned back to UNIDO contract office.

RESULTS

The Workshop on “*Contamination of Food and Agroproducts*” gave an updated review on the problems of contamination of food and agroproducts and on modern available food quality control methodologies.

Presented lectures encompassed issues on types, levels and possible sources of food and agroproducts contamination including overview of modern and fast methodology and techniques.

From the presented country and institutional reports it was evident that in all participating countries food contamination control exists primarily according to country regulations and laws. It was, however, pointed out that the lack of modern equipment and techniques is a limitation to reach higher standards in food safety control. Special problem is in small regional laboratories within countries which are poor or not properly equipped. Therefore the introduction of fast inexpensive screening tests is highly important and urgent. The necessity of training was also expressed by some countries.

It was also pointed out that the exchange of information concerning food and agroproducts contamination is not satisfactory and not standardized. Therefore organisation of a network and database for CEE countries is important.

For these reasons one project proposal suggests the organization of training courses and establishing the network.

During the Workshop it was also evident that no systematic monitoring of food and agroproducts contamination and monitoring of levels in humans exists in the CEE region. Different methodologies mostly not accompanied with international quality assurance studies were applied what makes that the obtained results are not always comparable. Therefore one project proposal was generated in order to initiate international monitoring of persistent toxic substances in food and in humans within the CEE countries region.

In the final discussion participants agreed on two project proposals.

Because of limitations in economic and financial possibilities support of international organizations (e.g. UN, FAO, EU) and industry would be necessary for both proposed projects.

Participants from the industry had an opportunity to make contact with up-to-date techniques devoted to production, distribution and control of food quality. It was also useful for regional and local Authorities dealing with human health matters and for the development and the implementation of projects for safe food production and consumption.

The workshop also tried to collect updated information on activities and projects carried out in CEE countries, identifying the strategies adopted case by case and the possibility to link these initiatives and launch joint projects.

ASSESSMENT

After the Workshop all participants received questionnaire for evaluation of the Workshop. Questionnaires with answers were received from 52 participants.

It is evident from the answers that for more than 65% of participants the organization, scientific programme and applied lectures of the Workshop were excellent or very good. For 86% of participants duration of programme was just right and 69% of participants expressed their feeling that length of working day was just right. For 62%-85% of participants lecture room, breakfast/refreshments, hotel accomodation and meals were excellent or very good. According to participants opinion overall organization and organizers response was excellent or very good (for 83%-90% of participants). Evaluation of lecturers and speakers showed that lecturers presentation (international and resident), the ability of lecturers to answer specific questions and course material according to judgement of 71%-83% of participants were excellent or very good. Therefore 90% of participants would recommend to others from their institution/country to attend a similar activity in the future. Details on evaluation of the Workshop are presented in Annex 4.

PROJECT PROPOSAL 1

TRAINING, COUNTRY REPORTS, NORMS, STANDARDS, LEGISLATION

BACKGROUND:

At the end of Varaždin Workshop problems affecting food and agricultural products safety in CEE countries were pointed out:

- Perplexities in the process of adopting a unified system of legislation and standards that would facilitate the integration process in EU.
- Lack of knowledge and adequate equipment particularly in regional laboratories
- The need for a regular reporting of the food safety issues from CEE countries.

JUSTIFICATION:

Different countries of the region are at different stages of their transition, and therefore the process of abiding to a unified legislation and standardisation system of food safety is difficult. The necessity for a regular country reporting is justified by the need for establishing the priorities, identification of hot spots and concerted action within the region. Introduction of modern methodologies is necessary for ensuring the food safety within the CEE countries on the level acceptable by the EU.

OBJECTIVES:

- Conduct a regional seminar on the approximation process to a unified standards and legislation system for the CEE countries that will take into account the developmental peculiarities of individual countries
- Develop an appropriate software that would allow the proper reporting of food safety data as well as to ensure the necessary infrastructure that will support the exchange of information in that area between the CEE countries.
- Provide the participants from the region with updated knowledge on modern methodologies for assuring safety and quality of food, envisaging their application in CEE countries in order to strengthen the national expertise in mastering, using and further developing quality control systems for local applications and adaptations.

CONTENTS:

- Training course on the adoption of fast, inexpensive screening methods for regional laboratories not properly equipped.
- Organisation of workshop on the problem of the adoption of a unified standard and legislation system for CEE countries

- Generation of uniform system for country reports as a basis for comparison and assessment within the region.

EXPECTED OUTPUTS:

- Speed up of integration process for the CEE countries in the EU.
- Stimulation of international transfer of information, research and technology and international co-operation through possible joint or follow-up projects and feasibility studies by identifying regional centres in developing countries through contacts established with the participants of the workshop/training course.

PARTNERS:

European Union, WHO, FAO

TENTATIVE BUDGET AND POSSIBLE FINANCIAL SUPPORT:

Overall estimation in USD: 100. 000

Financial sources: UNIDO, EU, FAO, WHO, Governments

PROJECT PROPOSAL 2

MONITORING OF TOXIC SUBSTANCES AND ANALYTICAL METHODOLOGY

BACKGROUND, JUSTIFICATION AND OBJECTIVES:

Monitoring of persistent toxic substances (PTS) in food, drinking water and human milk should be included into study, because food cannot be consumed without drinking water and human milk.

Contamination of food, drinking water and human milk has been repeatedly reported throughout the world, and it is therefore justified to monitor it continuously in order to identify, and then eliminate, sources of contamination.

CONTENTS:

Monitoring of organochlorine compounds, toxic metals, organophosphorus and carbamate pesticides, triazines and estrogenic compounds in food, drinking water and human milk.

In order to perform this study participants should provide UNIDO (Trieste) with an agreement of their institutions to perform that study, and the institution should name a contact person.

The programme should be finalised, and a project co-ordinator identified, at a meeting of participants in Trieste. Representatives of WHO and EC should take part in that meeting.

EXPECTED OUTPUTS:

- Validation of simple, reliable and rapid procedures for identification and quantification of contaminants.
- Exchange of information between partners concerning these methods.
- Identification of problems in particular institutions or countries concerning the proposed study.
- Exchange of new data and new initiatives.
- Providing advice and help to institutions or countries in performing the study.

PARTNERS:

All participants of this Workshop are suggested to constitute the initial group of partners. This group can later be expanded.

TENTATIVE BUDGET AND POSSIBLE FINANCIAL SUPPORT:

The tentative budget was not discussed. It was however suggested that support will probably be required in terms of equipment, standardised compounds for quality assurance studies, and in training individuals.

WORKSHOP ON CONTAMINATION OF FOOD AND AGROPRODUCTS
28th September - 1st October 2000
VARAŽDIN, CROATIA

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ANNEX 2



INTERNATIONAL CENTRE FOR SCIENCE AND HIGH TECHNOLOGY
Trieste, Italy

and



INSTITUTE FOR MEDICAL RESEARCH AND OCCUPATIONAL HEALTH
Zagreb, Croatia

AGENDA

Workshop
On

CONTAMINATION OF FOOD AND AGROPRODUCTS

Varaždin, Croatia
September 28th - October 1st 2000



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

Wednesday, September 27th 2000

- 18:00-19:00 Early registration
19:00 Get-together party

Thursday, September 28th 2000

- 9:00–9:30 Registration

Introductory Session

- 9:30–10:00 Introduction & Workshop objectives (*B. Krauthacker*). Greetings and ICS-UNIDO Mission, Programme on Pure and Applied Chemistry, Goals & Strategy (*S. Miertus*).

Greetings. Institute for Medical Research and Occupational Health (*S. Milković-Kraus, Director*), Ministry of Health Republic of Croatia. (*A. Barbir, Assistant Minister*), Ministry of Agriculture and Forestry (*Đ. Majurđžić*)

- 10:00-10:30 ICS-UNIDO Programme and Activities (*S. Miertus*).

- 10:30–11:00 *Coffee break***

Session 1 – Food and Agroproducts contamination: General Aspects

- 11:00–11:40 Allergenic Components of Agroproducts During Storage (*Z. Korunić*)
11:40–12:10 Micotoxins Contamination of Food and Human Health (*M. Peraica*)
12:10–12:50 Microbiological Examination and Proficiency Testing in Dairy Laboratory (*S. Golc-Teger*)
12:50-13:30 Discussion

- 13:30–15:00 *Lunch break***

Session 2 – Current situation of chemicals in food and agroproducts; inventories; initiatives for food and agroproducts quality improvement (Country and Institutional Reports).

- 15:00–15:20 Food Safety Issues in the Postconflict Transition Period of Southeast Europe. The Case of Albania (*E. Panariti*)
15:20-15:40 Bulgaria - Country Report (*N. Rizov*)

- 15:40–16:20 Monitoring of “Food and Feed Contamination” in the Slovak Republic (*A. Svetlikova*)
- 16:20–16:40 *Coffee break*
- 16:20–16:40 Contamination of Food and Agroproducts Hungary – Country Report (*J. Domoki*)
- 16:40–17:00 Lead, Cadmium and Mercury Dietary Intake in Croatia (*M. Blanuša*)
- 17:00–17:20 PCDD/PCDF Levels in Croatian Market Food Samples During 1999 (*Z. Šmit*)
- 17:20–17:40 Maruša Adamič, Mija Borštnar, Mojca Gabrijelčič Blenkuš, Mojca Erjavec: Country Report Slovenia
- 17:40–18:00 Discussion

Friday, September 29th 2000

Session 3 - Quality of Life Programme and Human Exposure

- 9:00–9:40 Quality of Life Programme – Food, Nutrition and Health – Projects promotion (*A. Boenke*).
- 9:40–10:20 Persistent, Bioaccumulative and Toxic Compounds in the Central and Eastern European Countries – The –State-of-the-Art Report – Human Exposure (*A. Kočan*)
- 10:20–10:50 *Coffee break*

Session 2 – Current situation of chemicals in food and agroproducts; inventories; initiatives for food and agroproducts quality improvement (Country and Institutional Reports) Continuation

- 10:50–11:10 Country report: Croatia (*K. Capak*)
- 11:10–11:30 Organochlorine Comounds in Human Milk and in Food from Animal Origin (*E. Reiner*)
- 11:30–11:50 Food Contamination in Romania During 1992–1998 (*A. Telniceanu*)
- 11:50–12:10 Contamination of Food and Agroproducts in Republic of Macedonia (Country Report) (*V. Kendrovski*)

- 12:10-12:30 Daugavpils Hygienic Laboratory Activity (*I. Soldatenko*)
- 12:30-13:10 Persistent, Bioaccumulative and Toxic Compounds in the Central and Eastern European Countries – The –State-of-the-Art Report – Recognition and Definition of Hot Spots (*A. Kočan*)
- 13:10-13:30 Discussion
- 13:30–15:00 **Lunch break**

Session 4 – Analytical Methods

- 15:00-15:40 New Analytical Methods for the Determination of Environmental Pollutants and Food Contaminants (*B. Birch*).
- 15:00–15:40 Inovative Methods Applicable to Food Industry (*J. Švorc*)
- 15:40-16:20 Soil Remediation Technologies for Persistent Toxic Substances (PTSs) (*A. Lodolo*).
- 16:20-17:00 **Coffee break**
- 17:00-17:40 Electrochemical Biosensors for Evaluation of Contaminants in Food (Pesticides, Biogenic Amines, OGM) for Quality Improvements (*Mascini*).
- 17:40-18:00 Discussion
- 20:00 DINNER

Saturday, September 30th 2000

- 9:00-13:30 Visit to “Vindija” food industry in Varaždin
- 13:30–15:00 **Lunch break**
- 15:00-15:40 Management of Food and Agro-Food Production, and Agro-Food Safety: an Economic Approach (*A. Ciani*)

Session 5 – Project development

- 15:40-16:20 Identification of Possible Common Initiatives/Projects and Relevant Financial Resources

16:20–16:40 *Coffee break*

16:40-18:00 Working Groups for Projects Definition and Development.

Sunday, October 1st 2000

9:00–10:30 Round Table Discussion and Presentation of Follow-up Proposals.

Recommendations and Conclusions

FINANCIAL REPORT

(Table 1)

ICS-UNIDO CONTRIBUTION	Planned USD	Spent	
		HRK	USD*
Accommodation and meals of 8 international lecturers	1,600	5,024.52	589.99
Accommodation and meals of 13 international participants	3,600	15,073.56	1,769.96
Travel of 8 international lecturers	8,000	33,450.36	3,927.78
Travel of 13 international participants	9,000	28,912.18	3,394.90
Accommodation of 23 and meals for 23+18 Croatian participants	2,800	23,085.80	2,710.75
TOTAL	25,000	105,546.42	12,393.38
LOCAL ORGANIZER CONTRIBUTION			
Rent of meeting equipment	1,000	1,000	117.42
Administrative and secretarial support	1,000	7,172.25	842.18
Contribution to travel of participants from the country	1,000	4,287.75	503.47
Local transportation	1,000	4,263.63	500.64
TOTAL	4,000	16,723.63	1963.71
GRAND TOTAL	29,000	122,270.05	14,357.10

* EXCHANGE RATE on 2nd October 2000. 1 USD = 8.516349 HRK

Specification of expenses:

International lecturers:

Accommodation and meals: 8 lecturers = 17 days x 295.56 HRK = 5,024.52 HRK

Travel of 4 lecturers by air = 27,183.06 HRK

Travel of 8 lecturers by bus/car = 6,267.30 HRK

International participants:

Accommodation and meals of 13 international participants

51 days x 295.56 HRK = 15,073.56 HRK

Travel of 7 international participants by air = 26,253.79 HRK

Travel of 3 international participants by train = 918.39 HRK

Travel of 11 international participants by bus/car = 1,740 HRK

Croatian participants:

Accommodation and meals of 23 Croatian participants 71 days x 295.56 HRK = 23,085.80 HRK

Meals of 18 Croatian participants = 2101,04 HRK

Other expenses:

Rent of meeting equipment (microphones) = 1,000.00 HRK

Contribution to travel of participants from the country (car/bus) = 3,642.90 HRK

Local transportation (car/bus) = 4263,63 HRK

NOTE: Expenditures are supported by relevant documents. Copies are attached to this financial report.

broj računa/kon org k dat-dokume brdok opis knjižen	iznos duguje	iznos potraž	ukupni iznos
670 UNIDO SASTANAK KRAUTHACKE			
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PLAC.PDV PO PR.RN.2000.G.	55,44		55,44
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DNEVNICE ZA SL.PUT ZEMLJA	2.755,20		2.755,20
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IZD.ZA USL.AG.STUD.SERV.	12.270,93	12.270,93
UNIDO SASTANAK KRAUTHACKE	118.027,41	179.752,69
UKUPNO ZA RASPON	118.027,41	-61.725,28



670 UNIDO

Poduzeće: 101 INSTITUT ZA MED. ISTR. I MED. RADA

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SVEUKUPNO:

116.00000

3.



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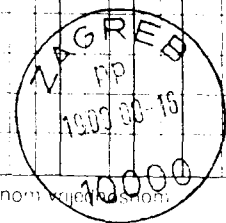
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Post. i bizov. uputnice međunarod		00078
Uplatnice ZAP		00081

INSTITUT ZA MEDICINSKA
ISTRAŽIVANJA I MEDICINU RADA
ZAGREB
Republika Hrvatska

List
broj

Broj post. uređa: 101011
Šifra korisnika: 165286
Nadnevak: 1909

Redni broj	Prijamni ili uplatni broj	Primateelj	Određeni poštanski ured	Zemlja	Vrijednost	Masa		Otkupna cijena	Postarna	Napomena
						kg	g			
Donos										
1	100450	PETAR MAJOR	MAĐARSKA				300	16		142,00 EHS
2	100449	JALOS DOBNER	MAĐARSKA				330	16		142,00 EHS
3	100442	H. KOLLER-BARODI	MAĐARSKA				330	16		142,00 EHS
										= 426,00



IZJAVA: Izjavljujem da označena vrijednost na svakom pojedinačnom vrijednosnom pismu ili paketu odgovara stvarnoj vrijednosti njihova sadržaja

Za prienos

Narodne novine - Zagreb 11 380465
Oznaka za narudžbu: P-3 EOP (9 97)

Nadnevak

Primio

Podpis pošiljatelja
(i otisak pečata za pravnu osobu)

Otkup post. žigai

670 UNIBO
13-09-2000

798

FEJENČAK

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PLANINSKA BB
10000 ZAGREB R-1
HRVATSKA MB - POREZNI BROJ 3996824
TEL; 01/2394-111 FAKTURNI ODJEL; 01/2394-157 FAX; 01/2394-122

*****NOVI ZIRO RACUN 30107-601-722853***

MJESTO IZDAVANJA FAKTURE ZAGREB

FAKTURA

5-800546

INSTITUT ZA MEDICINSKA ISTRAZIVANJA I

MEDICINU RADA
KSAVERSKA CESTA 2
10000 ZAGREB, HRVATSKA

VASA SIERA
BROJ FAKTURE 21300762
ZAGREB 15147
DATUM 27092000
STRANA

VAS MATICNI BROJ 3270475

DATUM AWB No	POSILJALAC DESTINACIJA	TEZINA KG	TOTAL IZNOS	PDV	UKUPNO
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	.5	425.00			425.00
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UPLATA U ROKU					8 DANA

425,00

Uputnica
Dostoga

Neto: četiristo dvadeset pet ten

Neto teret žiro-računa br.: 35105-603-5369
Korisniku: DHL International Zgb

13.9.2000

pr. N. Gruber

DHL
INTERNATIONAL d.o.o.
ZAGREB - PLANINSKA bb
Tel. 239-4111, Fax: 239-4120, 239-4121

pl. 15.9.2000.

Da je rad u redu izvršen -
vrđi i ovjerava:
B. Kuntovski
Zagreb, 20.9.2000.

ZIRO RACUN 30107-601-722853. UPLATA MODEL 02 I BROJ FAKTURE.
OSLOB. PDV-a DOX PO cl.5 st.4 tc.2, WPX cl.13 st.1 tc.1
POSILJKE U DOMACEM PRIJEVOZU PODLIJEZU PDV-u.

BI 203

Begovićeva 16 , 10000 Zagreb

tel/fax: +385 (01) 2318 363,098 209 714

Matični broj: 3727084

R-1

Račun br.

38-09/00

Primatelj :	INSTITUT ZA MEDICINSKA ISTRAŽIVANJA I MEDICINU RADA
Adresa primatelja :	Zagreb, Ksaverska cesta 2
Matični broj :	3270475
Vaš nalog :	usmeno, Gđa. B. Krauthacker
Način otpreme :	osobno

VRSTA USLUGE	IZNOS Kn
Na vaš zahtjev izvršili smo uslugu najma jednog (1) bežičnog mikrofona u razdoblju od 28.09.2000 do 30.09.2000.	=400,00.-kn
NETTO :	=400,00.-kn
RABAT :	uračunat
IZNOS :	=400,00.-kn
PDV 22 % :	= 88,00.-kn
UKUPNO :	=488,00.-kn
SLOVIMA : četiristoosamdesetosam kuna i nula lipa	

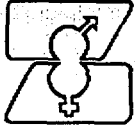
Reklamacije se primaju u roku jednog dana.

Plativo u roku 7 (sedam) dana na naš račun broj 30101-601-712486 ZAPP Zagreb.

U Zagrebu , 30.RUJNA 2000

DIREKTOR : Bruno Pucko

"MEDIA PLUS" d.o.o.
za proizvodnju, trgovinu i usluge
Z A G R E B , M. Begovića 16



UNIVERSITY OF LJUBLJANA
BIOTECHNICAL FACULTY
Zootechnical Depart.
Groblje 3, SI - 1230 DOMŽALE
SLOVENIA



INSTITUTE OF DAIRYING
Tel.: +386 1 7214 074, 7217-800
Fax.: +386 1 7214-074

FAX TRANSMISSION

From:	Doc.Dr. Slavica Golc Teger
Subject:	Confirmation
To:	Mrs. Dr. Blanka Krauthacker
No. fax:	00385 1 4673 303
Date:	20.10.2000
No. of pages	1

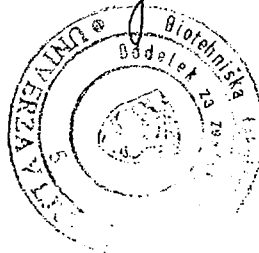
CONFIRMATION

I received for transportation from Ljubljana to Varaždin and back (UNIDO Workshop: Contamination of Food and Agroproducts, Varaždin, September 28 - October 1, 2000), 800 HRK.

Kind regards,

Doc.dr. Slavica Golc Teger

S. Golc Teger



VARAŽDIN 28th Sept - 1st October 2000

REFUND FOR TRAVEL

EDMOND PANARIT	120 Ku	[Signature]
MAYLINDA NDROQI	120 Ku	[Signature]
KOSTA KOČI	120 Ku	[Signature]
IRINA SOLDATENKO	120 Ku	[Signature]
BRIANE BIRCH	520 Ku	B. Birch
VLADIMIR KENDROVSKI	120 Ku	[Signature]
NIKOLAJ RIZOV	120 Ku	[Signature]
ANA TELNICEANU	120 Ku	[Signature]
PETER MAJOR	50 Ku	Peter Major
JANOS DOMOKI	50 Ku	[Signature]
MAGDOLNA KOVACS BORSODI	50 Ku	[Signature]
ANTON KOČAN	4300 Ku	[Signature]
JOZEF ŠVORC	2500 Ku	[Signature]
ZLATKO KORUNIĆ	120 Ku	[Signature]
MARCO MASCINI	120 Ku	M. Mascini



Blanka Krauthacker
Institute for Medical Research and Occupational Health
Ksaverska c. 2, POB 291
HR-10001 Zagreb, Croatia

Ljubljana, October 19th 2000

Dear Sirs!

I confirm that I have received 750 HRK for traveling expenses to Varaždin (for Workshop on Contamination of Food and Agroproducts, Varaždin, Croatia, September 28th – October 1st 2000) for Mojca Erjavec and myself.

Sincerely yours

Mojca Gabrijelčič Blenkuš

Zagreb, October 3, 2000

CONFIRMATION

I confirm that I received 120 Croatian kuna from the local organizer of the Workshop on Contamination of Food and Agroproducts —
Varaždin, Croatia, September 28th – October 1st 2000.

Zlatko Korunić
Zlatko Korunić

- 1

10-10-2000

Varaždin, 30.09.00
670

TURIST d.o.o.
Kralja Zvonimira 1
50000 VARAŽDIN
fon: (042) 105-105, 105-718
fax: (042) 105-705, 214-479
Općinski sud u Varaždinu, broj Tt-95/626-2
3672751



Poslovna jed. TURIST
RAČUN br. 000002710-010783
Poziv na broj 05 19-100000002710-010783
E-mail: turist@vz.tel.hr

INSTITUT ZA MEDICINSKA
ISTRAŽIVANJA I MEDICINU RADA

KSAVERSKA CESTA 2
ZAGREB

Natični broj: 3270475

860

Na temelju izvršili smo niže navedene usluge dana 30.09.00
u razdoblju od do
a prema otpremnom dokumentu poslovne jedinice

Datum naplate računa 15.10.00
Strana: 1

Vrsta usluge	Jed. mj.	Količina	Cijena	Iznos
HOTELSKE USLUGE	KOM			647,95
ORAVISNA TAKSA I OSIG.	%			17,50
PDV	%	22,00	17,50	0,00
PDV	%	22,00	647,95	142,50
UKUPNO:				807,95

Uz je rad u rodu izvrši:
vrši i ovjerava:
B. Knežević

Prilomljeni iznos molimo doznačite u roku u korist našeg računa broj 34805-601-43533 kod ZAP Varaždin.

Upozorenje: Za prekoračenje roka plaćanja zadržavamo pravo naplate. **TURIST** d.o.o. VARAŽDIN
KRALJA ZVONIMIRA

DIREKTOR EKONOMSKO-FINANCIJSKOG SEKTORA
PLaćanje u Varazdinu

R-1

TURIST" d.o.o.

Ulica kralja Zvonimira 1
2000 VARAŽDIN
Telefon: (042) 105-105, 105-718
Telefax: (042) 105-705, 214-479
Općinski sud u Varaždinu, broj Tt-95/626-2

I.B. 3672751



10 -10- 2000

670
Varaždin,

01.10.00

Poslovna jed. TURIST

RAČUN br. 000002711-010783

Poziv na broj 05 19-100000002711-010783

E-mail: turist@vz.tel.hr

INSTITUT ZA MEDICINSKA
ISTRAŽIVANJA I MEDICINU RADA

KSAVERSKA CESTA 2
ZAGREB

859

Natični broj: 3270475

Š-800388

Na temelju
izvršili smo niže navedene usluge dana 01.10.00
u razdoblju od do
a prema otpremnom dokumentu poslovne jedinice

Datum naplate računa 16.10.00
Strana: 1

Vrsta usluge	Jed. mj.	Količina	Cijena	Iznos
HOTELSKE USLUGE	KOM			32.762,69
BORAVIENA TAKSA I OSIG.	Z			2.403,10
PDV	Z	22,00	2.403,10	0,00
PDV	Z	22,00	32.762,69	7.207,79
SMJEŠTAJ UČESNIKA IDS UNIGD (SHOP-a od 27.09 do 1.10.)				
UKUPNO:				

Da je rad u roku izvršen
vrđi i ostalo

[Handwritten signature]

[Handwritten signature]

Gornji iznos molimo doznačite u roku u korist našeg računa broj 34800-001-43533 kod ZAP Varaždin.

Napomena:

Za prekoračenje roka plaćanja zadržavamo pravo naplate zatezne kampe

»TURIST« d.o.o.
VARAŽDIN

ULICA KRALJA ZVONIMIRA 1

DIREKTOR EKONOMSKO-FINANCIJSKOG SEKTORA

[Handwritten signature]

2000SEP20 17:57:37
M18100

Customer Transfer

Logical Terminal P202

Page 00001

Func PBOACK5

MSGACK {1:F21PBZGHR2XAXXX7478801780}{4:{177:0009201755}{451:0}}

Basic Header F 01 PBZGHR2XAXXX 7478 801780

Application Header I 100 ZABHR2XXXXX N

*ZAGREBACKA BANKA DD

*ZAGREB

User Header Service Code 103:

Bank. Priority 113:

Msg User Ref: 108:

TRN *20 : 807050047838

Date/Cur/Amount *32 A : Date 000921 Currency USD Amount 249,00

Ordering Customer *50 : INSTITUT ZA MEDICINSKA ISTRAZIVANJA

KSAVERSKA CESTA 2

10000 ZAGREB

Sender's Corr. 53 B : /C/7011-840-9980900-000165

Benefic Customer *59 : /70900-840-76207020-999

INTERIMPEX PROMET

11 OKTOMVRI

91000 SKOPJE

Details of Payment 70 : OSN. PL. 222

ZA AVIOKARTU SKOPJE -ZAGREB

DATUM KNJIZENJA 21.09.2000.

Trailer Order is <MAC:> <PAC:> <ENC:> <CHK:> <TNG:> <PDE:>

MAC:B0130C4F

620 DL K2UTHACER

2000SEP18 17:21:45

Logical Terminal P202

MT S100

Customer Transfer

Page 00001

Func PBNACK

MSGACK {1:F21PBZGHR2XAXXX7474800316}{4:{177:0009181717}{451:0}}

Basic Header F 01 PBZGHR2XAXXX 7474 800316

Application Header I 100 CHASUS33XXXX N

*CHASE MANHATTAN BANK, THE
*NEW YORK, NY

User Header Service Code 103:

Bank. Priority 113:

Msg User Ref. 108:

TRN *20 : BS01807050047355

Date/Cur/Amount *32 A : Date 000920 Currency USD Amount 605,

Ordering Customer *50 : INSTITUT ZA MED.ISTR.I MED.RAD
KSAVERSKA CESTA 2
ZAGREB
CROATIA

Account with Inst. 57 A : FINVBGSF
*FIRST INVESTMENT BANK LTD.
*SOFIA

Benefic Customer *59 : /1000273706
RELAX TRAVEL LTD
SOFIA
BELGIUM

Details of Payment 70 : /RFB/PROINV. 24

Details of Charges 71 A : OUR

Trailer Order is <MAC:> <PAC:> <ENC:> <CHK:> <TNG:> <PDE:>
MAC:B5FB21F7

DR KRAUTHACKER

G70 UNIDO

2000OCT11 17:19:31

Logical Terminal P202

MT 5100

Customer Transfer

Page 00001

Func PBNACK

MSGACK {1:F21PBZGHR2XAXXX7509812361}{4:{177:0010111715}{451:0}}

Basic Header F 01 PBZGHR2XAXXX 7509 812361

Application Header I 100 BBRUBEBBX010 N

*BANQUE BRUXELLES LAMBERT S.A.

*BRUSSELS

*(HEAD OFFICE)

User Header

Service Code 103:

Bank. Priority 113:

Msg User Ref. 108:

TRN *20 : BS01807050052451

Date/Cur/Amount *32 A : Date 001013 Currency EUR Amount 1.099,78

Ordering Customer *50 : INSTITUT ZA MED. ISTR. I MED. RAD

KSAVERSKA CESTA 2

ZAGREB

CROATIA

Benefic Customer *59 : /310 0867439 54

ACHIM BOENKE

BRUXELLES

BELGIUM

Details of Payment 70 : /RFB/INV.FOR THE TRAVEL COSTS

Details of Charges 71 A : OUR

Send. to Rec. Info. 72 : /OCMT/BEF44365,2/

Trailer Order is <MAC:> <PAC:> <ENC:> <CHK:> <TNG:> <PDE:>
MAC:38AFB26F

DR KRAUTHACKER

2000OCT09 13:41:45
MT S100

Customer Transfer

Logical Terminal P202
Page 00001
Func PBNACK

MSGACK {1:F21PBZGHR2XAXXX7504810803}{4:{177:00:10091343}{451:0}}

Basic Header F 01 PBZGHR2XAXXX 7504 810803

Application Header I 100 ROYCCAT2XXXX N
*ROYAL BANK OF CANADA
*TORONTO

User Header Service Code 103:
Bank. Priority 113:
Msg User Ref. 108:

TRN *20 : BS01807050051790
Date/Cur/Amount *32 A : Date 001011 Currency CAD Amount 1.589,57

Ordering Customer *50 : INSTITUT ZA MED.ISTR.I MED.RAD
KSAVERSKA CESTA 2
ZAGREB

Account with Inst. 57 D : CANADA TRUST, CANADA TURSTCO
COMPANY, 2030 CORYDON AVENUE
WINNIPEG, MANITOBA

Benefic Customer *59 : /164 15127 509 503781 0
D.ZLATKO KORUNIC
14 GREENWICH DR.,GUELPH
CANADA

Details of Payment 70 : /RFB/INV.DD 02/10/00

Details of Charges 71 A : OUR

Trailer Order is <MAC:> <PAC:> <ENC:> <CHK:> <TNG:> <PDE:>
MAC:543D88B0

DK FRUTHACKER

2000OCT09 16:11:16
MT S100

Customer Transfer

Logical Terminal P202
Page 00001
Func PBNACK

MSGACK {1:F21PBZGHR2XAXXX7505811007}{4:{177:0010091612}{451:0}}

Basic Header F 01 PBZGHR2XAXXX 7505 811007

Application Header I 100 MIDLGB22XXXX N

*HSBC BANK PLC (FORMERLY MIDLAND
*BANK PLC)
*LONDON
*(ALL U.K. OFFICES)

User Header Service Code 103:
Bank. Priority 113:
Msg User Ref. 108:

TRN *20 : BS01807050051781
Date/Cur/Amount *32 A : Date 001011 Currency GBP Amount 252,9

Ordering Customer *50 : INSTITUT ZA MED. ISTR. I MED. RAD
KSAVERSKA CESTA 2
ZAGREB
CROATIA

Account with Inst. 57 B : /SC403032
63 GEORGE STR., LUTON

Benefic Customer *59 : /71321978
UNIVERSITY OF LUTON ENTERPRI-
SES LTD, LUTON
BEDFORDSHIRE
UNITED KINGDOM

Details of Payment 70 : /RFB/INV.NO.2679/2000
EXP.FOR PROF.BRIAN BIRCH
CUST CODE C/P0009883/M

Details of Charges 71 A : OUR
Trailer Order is <MAC:> <PAC:> <ENC:> <CHK:> <TNG:> <PDE:>
MAC:BACD7F31

DR RUTHACKER
UNIDO 690

2009SEP22 16:39:34
MT 8100

Customer Transfer

Logical Terminal F202
Page 00001
Func PBNACK

MSGACK (1.F21PBZGHR2XAXXX7482802871){4:(177:0009221641){451:0}}

Basic Header F 01 PBZGHR2XAXXX 7482 802871

Application Header I 100 RNCBRO6UXXX N

*ROMANIAN COMMERCIAL BANK
*BUCHAREST

User Header Service Code 103:

Bank Priority 113:

Msg User Ref. 103:

TRK *28 : BS01307050048378

Date/Cur/Amount *32 A : Date 060926 Currency USD Amount 350,

Ordering Customer *50 : INSTITUT ZA MED. ISPR. I MED. RAD

KSAVERSKA OBSTA 2

ZAGREB

CROATIA

Sender's Corr. 53 A : CITIUS33

*CITIBANK N.A.

*NEW YORK, NY

Account with Inst. 57 B : /SUCURSALA IEVOR

B.D. LIBERTATII NR 22

Benefic Customer *59 : MINISTERUL SANATATII-INSTITUT

INSTITUTE OF PUBLIC HEALTH

BUCHAREST

ROMANIA

Details of Payment 70 : /HEB/INV. 20.09.2000-

PARTICIPATION FOR

ANA TELNICEARU

Details of Charges 71 A : CUR

Trailer Order 1\$ <NAC:> <PAC:> <ENC:> <CHK:> <TNG:> <PDE:>

NAC:FB1694AB

DR CAUTHACKER
670 UNIDO

25/09 '00 10:26

385 1.4552 902

PBZ Platni_prom.

001

20090922 17:35:03
MT S100

Customer Transfer

Logical Terminal F202
Page 00001
Func FBXACK

MSGACK {1:F21PBZGHR2XAXXX7482803008;14:{177:0009221735};{451:0}}

Basic Header F 01 PBZGHR2XAXXX 7482 803008

Application Header I 100 IRVTUS3HAXXX N

*BANK OF NEW YORK
*NEW YORK, NY

User Header Service Code 103:
Bank Priority 113:
Msg User Ref. 103:

TRN *20 : 8501807080048525...
Date/Cur/Amount *32 A : Date 000926 Currency USD Amount 147,
Ordering Customer *50 : INSTITUT ZA MED.ISTR.I.MED.RAD

KSAVERSNA CESTA 2
ZAGREB
CROATIA

Account with Inst. 57 D : /CH341100
UNIBANK OF LATVIA
SINAZILAS STR.12 KORP 2
DAUGAVPILS, LATVIA, LETONIA

Benefit Customer *59 : /010088885
HYGIENIC LABORATORY, ENVIRON-
MENTAL HEALTH CENT., DAUGAVPILS
IRINA SOLDATENKO
LATVIA

Details of Payment 70 : /RFB/INV.21.09.00
EXPENSES FOR IRINA SOLDATENKO.

Details of Charges 71 A : OUR

Trailer Order 14 <MRC:> <PAC:> <ENC:> <ORA:> <TNG:> <FCB:>
MRC:140524AC

EVALUATION OF QUESTIONNAIRES

Number of received questionnaires: 52
Results are expressed as % of total

**ICS Workshop/Training Course:
 EVALUATION QUESTIONNAIRE**

Course/Workshop: **“CONTAMINATION OF FOOD AND AGROPRODUCTS”**
28 September – 1 October 2000, Varaždin, Croatia

A. Organization:

	Excellent	V. Good	Good	Fair	Not answered
2. The information process was	37	31	19	7	6
3. The announcement and pre-course material was	33	32	23	2	10
4. I found the scientific programme	25	40	23	4	8
4.1. Applied Lecture/Workshop	21	58	12	5	4
4.2. Use of small working groups	19	23	27	2	29
4.3. Case Studies	13	39	23	2	23
4.4. The time spent by lecturers in class and after class on specific questions/examples	29	27	15	4	25
4.5. Students scientific knowledge was	Balanced	Unbalanced	Not answered		
	58	4	38		

B. Duration of programme:

	Just right	Too long	Too short	Not answered	
1. Number of days	86	12	0	2	
2. Length of working day	69	27	0	4	

C. Training facilities & Hotel:

	Excellent	V. Good	Good	Fair	Not answered
1. Lecture/Training Rooms	44	35	12	7	2
2. Breaks/refreshments	48	37	11	0	4
3. Hotel accommodation	42	33	10	0	15
4. Meals at the hotel	37	25	19	4	15

D. Organizer's response to participants needs 58 32 6 0 4

E. Overall programme organization 46 37 15 0 2

**F. Would you recommend to others from your institution/
country to attend a similar activity in the future?**

	Yes	Maybe	No	Not answered	
	90	6	0	4	

G. Evaluation of Lectures and Speakers

	Excellent	Very Good	Good	Fair	Not answered
1. Course material	29	54	13	0	4
2. Resident Lecture presentation	31	53	8	0	8
3. International Lecture presentation	23	52	17	0	8
4. Ability of lecturers to answer specific questions	25	46	21	0	8