

UKRATKO O YU MMT

Jugoslovensko udruženje za mikrotalasnu tehniku i tehnologiju (YU MTT) formirano je sa ciljem da potpomogne razmenu stručnih informacija između članova udruženja i društva u celini, kao i da potpomogne kvalitetnu i stručnu ocenu i promociju društveno vrednih dostignuća u ovoj oblasti.

Ciljevi i zadaci YU MTT-a su:

-da podstiče razmenu stručnih informacija između članova preko publikacija, programa za edukaciju, konferencija, simpozijuma i na druge načine;

-da podstiče, organizuje i izdaje naučne i stručne radove, časopise i druge publikacije od interesa za članove udruženja;

-pripremanje, održavanje i pomaganje održavanja skupova čiji je cilj neprekidno stručno obrazovanje i usavršavanje članova udruženja;

-pružanje pomoći članovima udruženja u naučnom i stručnom usavršavanju i organizovanju odgovarajućih oblika permanentnog obrazovanja;

-pružanje savremenog razvoja tehnike i tehnologije i ukazivanje na tokove zbivanja i promene u ovoj oblasti;

-da permanentno radi na međunarodnoj promociji i verifikaciji stručnih radova i dostignuća svojih članova i da ih kandiduje za odgovarajuća međunarodna priznanja.

U sastavu administrativnog komiteta koji je organ Skupštine YUMTT-a, nalaze se:

mr Branka Jokanović, predsednik

Prof. dr Nikola Dekleva

Prof. dr Aleksandar Marinčić, dopisni član SANU

Prof. dr Bratislav Milovanović

Prof. dr Aleksandar Nešić

U okviru udruženja deluju i sledeći odbori:

Odbor za izdavačku delatnost u sastavu:

dr Branko Kolundžija, predsednik

Ivana Radnović, dipl. ing.

Odbor za saradnju:

Prof. dr Bratislav Milovanović, predsednik

Miodrag Mikavica, dipl. ing.

Milka Marjanović, dipl. tehnolog

Odbor za stručne skupove:

Prof. dr Aleksandar Nešić, predsednik
dr Vera Marković
Siniša Jovanović, dipl. ing.

Odbor za finansije:

Slavoljub Jovanović, dipl. ing., predsednik
mr Veljko Napijalo

ŠTA SMO RADILI TOKOM OVIH PET GODINA

Negde krajem 1988. godine u Bernu, Švajcarska, Dr Martin Schneider, AT &T, USA, Olga Borić i ja dogovorili smo se da što je moguće pre organizujemo potpisivanje peticije za osnivanje Jugoslovenskog IEEE MTT Chapter-a.

 RECEIVED MAY 1 1989 FIELD SERVICES Name of IEEE Society Name of IEEE Section PETITION FOR THE ESTABLISHMENT OF AN IEEE SOCIETY CHAPTER Date April 10, 1989. Microwave Theory and Techniques Yugoslavia <small>We, the undersigned, who are members of the above Society and Section hereby petition for approval to Form a Chapter in the Section indicated above.</small>																																																															
<table border="1"> <thead> <tr> <th>Signature of Petitioners</th> <th>Membership Grade and Number</th> <th>Printed Name</th> </tr> </thead> <tbody> <tr><td></td><td>2144462</td><td>ZORAN R. PETROVIĆ</td></tr> <tr><td></td><td>2144434</td><td>MIROSLAV L. ĐURIĆ</td></tr> <tr><td></td><td>2144426</td><td>ĐORĐE PAUNOVIĆ</td></tr> <tr><td></td><td>4588083</td><td>ALEKSANDAR MARINČIĆ OK</td></tr> <tr><td></td><td>74109717</td><td>HAJRUDIN BEĆA OK</td></tr> <tr><td></td><td>2444418</td><td>NENAD ŠIMIĆ OK</td></tr> <tr><td></td><td>0315358</td><td>OLGA BORIĆ OK</td></tr> <tr><td></td><td>4069555</td><td>NEŠAD POPOVIĆ OK</td></tr> <tr><td></td><td>3020137</td><td>SLOBODAN STOJANOVIĆ OK</td></tr> <tr><td></td><td>4528329</td><td>DUŠAN ĐORĐEVIĆ NO SOC.</td></tr> <tr><td></td><td>0300462</td><td>DEJAN ČURČIĆ NO SOC.</td></tr> <tr><td></td><td>17054687</td><td>MARIJA HRIŠĆEK NO SOC.</td></tr> <tr><td></td><td>0346684</td><td>BRANKA JOKANOVIĆ OK</td></tr> <tr><td>14)</td><td></td><td></td></tr> <tr><td>15)</td><td></td><td></td></tr> <tr><td>16)</td><td></td><td></td></tr> <tr><td>17)</td><td></td><td></td></tr> <tr><td>18)</td><td></td><td></td></tr> <tr><td>19)</td><td></td><td></td></tr> <tr><td>20)</td><td></td><td></td></tr> </tbody> </table>	Signature of Petitioners	Membership Grade and Number	Printed Name		2144462	ZORAN R. PETROVIĆ		2144434	MIROSLAV L. ĐURIĆ		2144426	ĐORĐE PAUNOVIĆ		4588083	ALEKSANDAR MARINČIĆ OK		74109717	HAJRUDIN BEĆA OK		2444418	NENAD ŠIMIĆ OK		0315358	OLGA BORIĆ OK		4069555	NEŠAD POPOVIĆ OK		3020137	SLOBODAN STOJANOVIĆ OK		4528329	DUŠAN ĐORĐEVIĆ NO SOC.		0300462	DEJAN ČURČIĆ NO SOC.		17054687	MARIJA HRIŠĆEK NO SOC.		0346684	BRANKA JOKANOVIĆ OK	14)			15)			16)			17)			18)			19)			20)		
Signature of Petitioners	Membership Grade and Number	Printed Name																																																													
	2144462	ZORAN R. PETROVIĆ																																																													
	2144434	MIROSLAV L. ĐURIĆ																																																													
	2144426	ĐORĐE PAUNOVIĆ																																																													
	4588083	ALEKSANDAR MARINČIĆ OK																																																													
	74109717	HAJRUDIN BEĆA OK																																																													
	2444418	NENAD ŠIMIĆ OK																																																													
	0315358	OLGA BORIĆ OK																																																													
	4069555	NEŠAD POPOVIĆ OK																																																													
	3020137	SLOBODAN STOJANOVIĆ OK																																																													
	4528329	DUŠAN ĐORĐEVIĆ NO SOC.																																																													
	0300462	DEJAN ČURČIĆ NO SOC.																																																													
	17054687	MARIJA HRIŠĆEK NO SOC.																																																													
	0346684	BRANKA JOKANOVIĆ OK																																																													
14)																																																															
15)																																																															
16)																																																															
17)																																																															
18)																																																															
19)																																																															
20)																																																															
<small>(Minimum of twelve signatures required)</small> <small>This action has the approval of the Section Executive Committee</small> <small>The following individual is serving as the Organizer of the Chapter:</small> BRANKA JOKANOVIĆ, INSTITUTE OF APPLIED PHYSICS BULEVAR KARLINA 165 b, P.O. BOX 58 11070 NOVI BEograd, YUGOSLAVIA <small>City State/Country</small> <small>03/81 Signature of Chapter Officer</small>  <small>Section Office No. 101</small>  <small>REV. 10/84</small>																																																															

Petnica za osnivanje Jugoslovenske IEEE MTT sekcije The petition for the Establishement of the Yugoslav IEEE MTT Chapter

Bio je to naš drugi pokušaj da se formira Jugoslovenska IEEE MTT sekcija. 1987. godine obratili smo se predsedniku Jugoslovenske IEEE sekcije u Ljubljani tražeći instrukcije u vezi formiranja Mikrotalasne IEEE sekcije, međutim nismo dobili

pozitivan odgovor. U to vreme Jugoslavija je imala snažnu IEEE sekciju sa središtem u Ljubljani i retku privilegiju da njeni gradjani svoju IEEE članarinu plaćaju u domaćoj valuti.

Beograd, kao središte Microwave Theory and Techniques Chapter-a, bilo je teško i zamisliti jer su se dotada sve IEEE aktivnosti odvijale u zapadnom delu Jugoslavije.

The Petition for the Establishment of an IEEE Society Chapter-a potpisali su početkom aprila 1989. godine članovi IEEE iz Beograda i iz Banja Luke:

Potpisnici peticije koji nisu bili članovi IEEE MTT-Society, popunili su dodatni formular za učlanjenje u MTT Society, tako da je zajedno sa peticijom išlo i nekoliko ovih dodatnih formulara, kako bi peticija bila valjana. Peticija smo poslali u Ljubljani na potpisivanje kod Prof. Zajca, koji je tada bio predsednik Jugoslovenske IEEE sekcije. On je peticiju potpisao tek posle dužeg telefonskog ubedjivanja od strane Dr Martin Schneider-a, i prosledio je u Ameriku, ali bez dodatnih formulara, tako da peticija nije prihvaćena.

Volela bih da ovom prilikom citiram deo pisma napisanog u 9 tačaka, koje mi je tim povodom uputio Dr Martin Schneider, kao ilustraciju otpora sa kojim smo se suočili u samom vrhu Jugoslovenske IEEE sekcije.

"9. I told him again that he should try to find this petition as quickly as possible, approve it by signing as the Section Head, and mail it immediately to Marc Lucas at the IEEE. This would benefit him greatly and demonstrate that the Yugoslavia Section is the forefront in technical leadership in Region 8. The formation of new Chapter would also enhance his chances to be nominated as a future and potential Regional Director of the IEEE.

I hope that I covered all the points of this lengthy conversation and I wish that the man understood clearly how much effort I put into this project to make it a success. I leave it now to you to cut the Gordian knot and make everyone happy."

Ponovo su popunjene "nestale" pristupnice za MTT-Society i poslate direktno u Ameriku. Konačno smo 26. juna 1989. godine dobili pismo iz IEEE Field Service kojim smo obavešteni da je prihvaćen naš zahtev da se formira Jugoslovenska IEEE MTT sekcija. To je imalo za sve nas koji smo se angažovali oko peticije ogroman značaj, jer je to bio kraj opstrukcija koje su nas pratile tokom ove akcije, a koje su bile teško razumljive ljudima iz drugih sredina.

Koristim ovu svečanu priliku da istaknem dragocenu pomoć koju nam je dr Martin Schneider pružao ne samo u toku formiranja Chapter-a već sve ovo vreme. Veliki deo uspeha Jugoslovenskog IEEE MTT Chapter-a pripada Martinu Schneider-u, čoveku koji je

jedan od kreatora visokih profesionalnih standarda i duha IEEE.

Kako se uspešnost rada IEEE chaptera meri ne samo brojem i kvalitetom održanih stručnih skupova, već i brojem članova, želela bih da istaknem da je Jugoslovenska IEEE MTT sekcija imala 19 članova kada je počela da radi, a već krajem 1989. godine sekcija je brojala 40 članova.



Diploma kojom je ozvaničeno osnivanje Jugoslovenske IEEE MTT sekcije

The Certificate that commemorates the Establishment of the Yugoslav IEEE MTT Chapter

Aktivnosti sekcije

U prvom periodu svoga rada, do raspada Jugoslavije, Jugoslovenska IEEE MTT sekcija je ulagala puno napora da svoje članstvo informiše o najnivojim dostignućima u struci, pozivajući najeminentnije stručnjake iz pojedinih oblasti da kao gosti sekcije održe svoja predavanja. Ovi susreti su pomogli da se uspostave i lični kontakti i profesionalna saradnja i sa kolegama van naše zemlje.

1989.

1. Prva predavanja u organizaciji Jugoslovenske IEEE MTT sekcije održao je Prof. Dr. Tatsuo Itoh, the

University of Texas, Vice President of IEEE MTT Society za 1989. godinu.

Predavanja pod nazivom:

i) Recent Trends of Quasi Optical Planar Planar Integrated Circuits and Components

ii) Research on Microwave Optical Interaction at the University of Texas

održana su u IMTEL-u u prisustvu oko 50 slušalaca.

2. Dr. Lauren Palmateer, School of Electrical Engineering, Cornell University, održala je u decembru iste godine dva zanimljiva predavanja:

i) High Performance AlInAs/GaInAs Modulation Doped Field Effect Transistors-Prezentacija najvažnijih rezultata doktorske teze odbranjene na Cornell University 1989. godine.

ii) Quantum Well Resonant Tunnelling Structures for Local Oscillator Sources in Radioastronomy Receivers.

Predavanja su održana u IMTEL-u u prisustvu oko 25 slušalaca.

1990.

1. Počele su pripreme za održavanje The First International Scientific Meeting "Microwaves in Medicine'91" koji je bio planiran za 8.-11. april 1991. u Beogradu.

2. Prof. dr Vittorio Rizzoli, University of Bologna, Distinguished Lecturer of IEEE MTT Society za 1990/1991. godinu održao je na poziv Jugoslovenske MTT sekcije sledeće predavanje:

Simulation and Design of Nonlinear Microwave Circuits

Predavanje je održano u IMTEL-u u prisustvu oko 50 slušalaca.

1991.

The First International Scientific Meeting "Microwaves in Medicine'91" održan je u Beogradu od 8.-11. aprila 1991.

i) Bila je to prva IEEE sponzorisana konferencija u Jugoslaviji i u Istočnoj Evropi,

ii) Prezentirana su 42 rada na sledećim sekcijama:

-Medical Applications of Microwaves

-Dosimetry and Instrumentation

-Biological Effects of Microwaves

-Protection and Safety Standards

Prezentirana su 4 rada po pozivu.

iii) Izdat je zbornik radova na engleskom jeziku Microwaves in Medicine 91, Digests of Papers.

1992.

Sankcije koje su uvedene u junu 1992. godine Saveznoj Republici Jugoslaviji, znatno su otežale rad

Jugoslovenskog MTT Chapter-a jer su potpuno prekinute ili pak znatno otežane naučne veze sa inostranstvom, nabavka časopisa, knjiga, instrumentacije, a i znatno je otežano publikovanje naučnih rezultata jugoslovenskih stručnjaka. Takodje u ovom periodu se desio nezapamćen odliv madih elektro inženjera iz zemlje, što će se tek odraziti na kvalitet naučnog rada.

Želim da istaknem da jedini časopisi koji i u vreme sankcija stižu u Jugoslaviju su časopisi koje izdaje IEEE. The Institute of Electrical and Electronics Engineers je u ovim teškim vremenima ostao uz svoje članove u Jugoslaviji sledeći svoje visoke etičke norme koje isključuju svaku diskriminaciju kako to piše u IEEE CODE OF ETHICS.

U toku trajanja sankcija Jugoslovenska IEEE MTT sekcija je bila prinudjena da drugačije organizuje svoj rad, pri čemu je posebna pažnja poklonjena prezentaciji vrednih rezultata domaćih autora. Organizovan je niz predavanja i stručnih skupova koji treba da omoguće odgovarajuću stručnu verifikaciju i komunikaciju među članovima, da bi se očuvali visoki kriterijumi u proceni kvaliteta naučnog i stručnog rada, koji inače u uslovima izolacije najpre degradiraju.

Od decembra 1992. godine, rad Jugoslovenskog MTT sekcije se odvija u okviru Jugoslovenskog udruženja za mikrotalasnu tehniku i tehnologiju YU MTT koje je zvanično registrovano.

Cilj Jugoslovenskog udruženja za mikrotalasnu tehniku i tehnologiju je da potpomogne razmenu stručnih informacija između članova udruženja i društva u celini kao i da potpomogne kvalitetnu i stručnu ocenu i promociju vrednih rezultata u ovoj oblasti.

Na ovaj način je prevazidjen problem koji ima većina evropskih IEEE MTT udruženja, a to je postojanje nacionalnih inženjerskih organizacija s jedne strane i postojanje medjunarodne organizacije IEEE koja je originalno bila američko udruženje elektro inženjera. Delatnost nacionalnih inženjerskih organizacija se često preklapa sa delatnošću nacionalnih ograna IEEE, što stvara teškoće u funkcionisanju obe organizacije.

U avgustu 1992. godine formirane su 3 nove IEEE sekcije na teritoriji bivše Jugoslavije, pri čemu je Jugoslovenska IEEE MTT sekcija na teritoriji Savezne Republike Jugoslavije zadržala oko 30 članova, što je činilo 70% svih IEEE MTT članova na teritoriji bivše Jugoslavije.

U toku 1992. godine organizati su sledeći stručni skupovi:

1. Elektronski fakultet iz Niša i Jugoslovenska IEEE MTT sekcija organizovali su stručni skup pod nazivom:

Novi prodori u primeni kvazistatičkih metoda za analizu transmisionih linija

Skup je bio posvećen prezentaciji najnovijih rezultata Laboratorije za mikrotalasnu tehniku i satelitsku televiziju na Elektronskom fakultetu u Nišu. Prezentirane su sledeće teme:

i) Prof. dr Bratislav Milovanović;

Novi postupak za ubrzanje konvergencije jedne klase Green-ovih funkcija

ii) dr Vera Marković:

Poboljšanje efikasnosti metoda fiktivnih izvora primenjenih na analizu MIC struktura

iii) mr Vlada Stanković

Projektovanje talasovodnih Doplerovih modula za detekciju smera kretanja

2. Prilikom formiranja YU MTT-a u decembru u prostorijama Srpske akademije nauka i umetnosti, održana su sledeća predavanja:

i) Prof. dr Aleksandar Nešić i Miodrag Mikavica, autori programskog paketa za analizu antenskih nizova, koji je pod nazivom:

CAD for Linear and Planar Antenna Arrays of Various Radiating Elements, publikovan u Altech House 1992. prezentirali su mogućnosti programskog paketa na više različitih antenskih nizova,

ii) Prof Nikola Dekleva, predsednik Tehničkog komiteta The First International Scientific Meeting Microwave in Medicine 91, održao je predavanje pod nazivom:

Nove tendencije u primeni mikrotalasa u medicini

1993.

1. U znak sećanja na 50 godina od smrti Nikole Tesle u Muzeju Nikola Tesla, Prof. Aleksandar Marinčić je održao predavanje koje je u celosti štampano u časopisu IEEE MTT Newsletter, Fall 1993. pod nazivom:

Nikola Tesla Contributions to the Development of Radio.

2. Predavanje pod nazivom:

Novi pristup projektovanju eliptičkih filtera

održao je dr Miroslav Lutovac, naučni saradnik Instituta za telekomunikacije i elektroniku-IRITEL, 18. novembra 1993. godine. Ovo predavanje je YU MTT organizovao u saradnji sa Jugoslovenskim društvom za električna kola u osnivanju, sa ciljem da promoviše vredna dostignuća domaćih autora.

1994.

1. Predavanje pod nazivom:

Sistemi mobilnih radio-veza

-Kratak istorijski pregled razvoja telekomunikacija, posebno mobilnih

-Posle 150 godina-telekomunikacije danas

-Namena, osnovni principi, ciljevi razvoja sistema mobilnih radio-veza

-Mobilni radio-kanal

-Metodi predikcije, pokrivanje zadate teritorije

-Organizacija mobilnih ćelijskih sistema

-Pregled postojećih i budućih mobilnih sistema i servisa

-Predviđanje budućeg razvoja

-Mobilni sistemi nove generacije, zemaljski, satelitski,

održao je 31. maja 1994. god. Prof. dr Đorđe Paunović, predsednik Jugoslovenske IEEE sekciјe i prorektor Univerziteta u Beogradu. Pored članova IEEE MTT- Society, bio je prisutan i veliki broj inženjera iz PTT Srbija, RTV Srbija i iz drugih institucija. Ovo je bio najposećeniji skup održan u organizaciji Jugoslovenske mikrotalasne sekciјe, na kome je bilo 67 slušalaca.



Detalj sa najposećenijeg predavanja koje je održao prof. Đorđe Paunović

Detail from the most attended lecture given by Prof. Đorđe Paunović

2. Jedina predavanja koje je držao predavač iz inostranstva, od kada su uvedene sankcije bila su predavanja pod nazivom:

i) **Some Recent Developments in the Transmission-Line Modelling (TLM) Method**

ii) **The Application of TLM to Electromagnetic Compatibility Problems**

Predavanja su održana 19. septembra 1994. godine na Elektronskom fakultetu u Nišu u organizaciji Elektronskog fakulteta u Nišu, Laboratorija za mikrotalasnu tehniku i satelitsku televiziju i Jugoslovenskog udruženja za mikrotalasnu tehniku i tehnologiju YU MTT.

Predavač je bio Prof. Christos Christopoulos sa University of Nottingham, Department of Electrical and Electronic Engineering, England, koji se bavi

istraživanjima u oblasti modelovanja elektromagnetskog polja sekcijama vodova (Transmission Line Modelling).

Kako se ove godine navršava punih pet godina rada Jugoslovenske IEEE MTT sekcijs, Administrativni komitet Jugoslovenskog udruženja za mikrotalasnu tehniku i tehnologiju, na svojoj sednici održanoj 21. oktobra 1994. godine doneo je odluku da se na svečan način obeleži ova godišnjica. Plan svečanog obeležavanja obuhvatao je sledeće:

1. Dodelu nagrade za najbolje predavanje održano u organizaciji Jugoslovenske IEEE MTT sekcijs u periodu 1989.-1994. Odlučeno je da nagrada bude zlatnik sa likom Nikole Tesle i diploma.
2. Dodelu zahvalnica svim predavačima koji su u proteklom periodu održali predavanja po pozivu
3. Dodelu zahvalnica pojedincima i institucijama koje su izuzetno pomogle rad sekcijs u ovom periodu i
4. Izдавanje svečanog biltena posvećenog aktivnostima Jugoslovenske IEEE MTT sekcijs u periodu 1989.-1994.



*Organizacioni odbor za obeležavanje petogodišnjice rada sekcijs u trenucima neformalne diskusije
The Organizing Committee of the 5th Anniversary Celebration during informal discussion*

Ove odluke su očigledno donesene u frekvencijskom a ne u vremenskom domenu, što su najbolje osetili na svojoj koži članovi Organizacionog odbora, jer su se svi više puta inverzno transformisali da nekako pripreme svečanu sednicu u ovako kratkom vremenu.

*Branka Jokanović
Predsednik Jugoslovenske IEEE MTT sekcijs*

PRESIDENT'S COLUMN

Just about the end of 1988, in Bern, Switzerland, Dr. Martin Schneider, AT&T, USA, Olga Boric and me decided to organize signing the Petition for

Establishment of the Yugoslav IEEE MTT Chapter, as soon as possible. It was our second attempt to found the chapter, because we sent the letter to the President of Yugoslav IEEE Society in 1987, asking for some information how to form the MTT chapter, but answer was very discouraging for us.

In that time Yugoslavia had numerous IEEE Section with the seat in Ljubljana and the privilege for its members to pay the fee for their membership in local currency. It was difficult to fancy Belgrade as a seat of the new MTT chapter, because all of IEEE activities had been taking place in western part of Yugoslavia until this moment.

The Petition was signed by some IEEE members from Belgrade and from Banja Luka.

Taking into consideration the fact that all of those who signed the Petition were not MTT-S members we had to include Part A Form into the Petition, which confirmed that those people became MTT members. We mailed it to Prof. Zajc who was the President of Yugoslav IEEE Section to sign it. Only after long telephone conversation with Dr. Schneider he signed the Petition and sent it to USA, but without additional forms so our Petition was not valid.

I would like to cite the part of the letter written in 9 parts which was sent to me by Dr. Martin Schneider after long telephone conversation with Prof. Zajc. This is to illustrate how considerable resistance against our Petition was in the very center of Yugoslav IEEE Section.

"9. I told him again that he should try to find this petition as quickly as possible, approve it by signing as the Section Head, and mail it immediately to Marc Lucas at the IEEE. This would benefit him greatly and demonstrate that Yugoslavia Section is the forefront in technical leadership in Region 8. The formation of new chapter would also enhance his chances to be nominated as a future and potential Regional Director of the IEEE.

I hope that I covered all the points of this lengthy conversation and I wish that the man understood clearly how much effort I put into this project to make it a success. I leave it now to you to cut the Gordian knot and make everyone happy."

The problem was solved, so we sent the Forms once again, but now directly to America. Finally 26th June 1989. we were informed the Chapter was formed. It meant a lot to us who were engaged in the Petition. And that was the end of the obstructions which followed us during this activity, and which could not be easily understood by people abroad.

I would like to use this special opportunity to emphasize vulnerable help made to the Chapter by Dr. Schneider, not only during the foundation of the Chapter, but during all this period. He always gave us the proper advise and set our activities in motion.

How successful the Chapter is depends not only on the number and quality of technical meetings

organized by the Chapter, but also on how to increase the number of members.

And that's the way I want to emphasize that Yugoslav MTT Chapter had 19 members at the beginning and by the end of 1989 it had almost 40.

In first period of its activities, before Yugoslav disintegration, the Chapter was trying to inform the members with the latest achievements in our profession and few recognized experts abroad was invited to give a talk in our Chapter.

Chapter's activities

1989.

1. The first technical meeting organized at our Chapter was the lectures given by Prof. Dr. Tatsuo Itoh, the University of Texas, Vice President of IEEE MTT Society in 1989.

The lectures entitled:

- i) Recent Developments of Quasi Optical Planar Integrated Circuits and Components,
- ii) Research on Microwave Optical Interaction at the University of Texas.

About 50 people were present at these lectures.

2. In December 1989. Dr. Lauren Palmateer, School of Electrical Engineering Cornell University, gave two very interesting talks concerning the main results from her Ph.D. Thesis at Cornell University, and her latest investigations in company Thomson, France.

The lectures entitled:

- i) High Performance AlInAs/GaInAs Modulation Doped Field Effect Transistors,
- ii) Quantum Well Resonant Tunneled Structures for Local Oscillator Sources in Radioastronomy Receivers.

1990.

1. That year we started the activities concerning The First International Scientific Meeting "Microwaves in Medicine", that was planed for 8.-11. April 1991. in Belgrade.

2. Prof. Dr. Vittorio Rizzoli, University of Bologna, Distinguished Lecturer of IEEE MTT Society for 1990/1991. was invited to give the lecture:

Simulation and Design of Nonlinear Microwave Circuits.

1991.

The First International Scientific Meeting "Microwaves in Medicine", was held just before Yugoslav disaster, so the number of participants was less than we expected.

But, it is important to point out that:

i) It was the first IEEE sponsored conference in Yugoslavia and in Eastern Europe too.

ii) At the conference 42 paper were presented at the following sessions:

- Medical Application of Microwaves,
- Dosimetry and Instrumentation,
- Biological Effects of Microwaves and
- Protection and Safety Standards

and 4 invited lecturers gave the talks too.

iii) Digests of Paper **Microwaves in Medicine'91** was published in English, which was the official language at the conference.

iv) The conference report was published in magazines "Microwave News" and "Newsletter".

1992.

Yugoslavia MTT Chapter works at sanctions since 1992. and I suppose few chapters have been in such situation as our chapter has. Some estimation made for 1992/1993. tell us that about 50% of electrical engineering staff younger than 35 years have already left the country because of the actual situation in Yugoslavia.

This is the crucial fact which diminishes the quality and successfullness of our professional work now and later. All the other scientific contacts have been broken just because of the sanctions or because of the impossibility of attending the meetings and conferences due to the economical restrictions. The only contacts are realized by IEEE magazines, because no books can be bought and we can't invite anybody to deliver attractive lectures in Yugoslavia.

I would like to emphasize that all Yugoslav IEEE members are proud of their membership of the IEEE, because it has followed its high ethic and professional standards and has not discriminated Yugoslav members in any way, in these hard times.

Because of that, we have thought that our duty is to try to continue our IEEE activities in spite of the difficulties, and to keep Chapter alive by doing the things which are not influenced by sanctions.

First of all we legalized the status of Yugoslavia MTT-S Chapter through the Yugoslav Association for Microwave Technique and Technology-YU MTT, the new organization established at the end of 1992. This Association includes all activities of Yugoslavia IEEE MTT Chapter and also serves as a link between microwave engineers and other professionals who are interested in application of microwave technology.

This organization was intended to overcome the problem of existence at the same time, two engineering organizations (national and IEEE) with almost similar activities at the majority of European countries. So, YU MTT includes both, the Yugoslavia MTT-S Chapter and the Yugoslav Association for Microwave Engineering as a national microwave organization.

Administration Committee of the YU MTT decided to organize its activities at sanctions as the series of technical meetings that should to promote the important domestic scientific and research results verified abroad.

In 1992 we had two technical meetings:

1. The Faculty of Electronics, Nis, and Yugoslav MTT Chapter organized jointly the meeting to present the research activities at Faculty of Electronics Nis. Three talks have been given at IMTEL and about 30 people were present. The lectures are entitled:

i) **The Novel Procedure for Speeding up the Convergence of One Class of Green's Functions** given by Prof. Dr. Bratislav Milovanovic

ii) **The Implementation of Fictive Sources Method Efficiency Applied to MIC Structures Analysis** the lecture was given by Dr. Vera Markovic and it was the part of her Ph. D. Dissertation, at Faculty of Electronics, Nis.

iii) **Design of Waveguide Doppler's Module for the Detection of the Motion Direction**
Vladan Stankovic M.S.E.E. gave this talk.

2. In December 1992. two lectures have been given:

i). Prof. Aleksandar Nesic and Miodrag Mikavica gave lecture about their software and users's manual entitled:

CAD For Linear and Planar Antenna Arrays of Various Radiating Elements, which was published by Artech House 1992.

ii) Prof. Nikola Dekleva, with Clinical Hospital Zemun, who was Chairman of the First Conference Microwaves in Medicine'91 gave speech.

Recent Tendency in Microwave Application in Medicine

The meeting took place in Serbian Academy of Sciences in Belgrade and about 30 people were present.

In 1993 we had two technical meetings:

1. At the beginning of July, the meeting devoted to the fiftieth anniversary of the death of Nikola Tesla, the most famous Yugoslav and also American engineer and scientist, was organized. The lecture entitled :

Nikola Tesla Contributions to the Development of Electrical Engineering

was performed by Prof. Aleksandar Marincic, Director of the Museum Nikola Tesla in Belgrade. This lecture was published completely in MTT-S Newsletter, Fall 1993.

2. The second meeting was organized jointly with the Yugoslav Association for Electrical Circuits in November 1993. at IMTEL. Dr Miroslav Lutovac

from IRITEL -Telecommunications & Electronics Institute, Belgrade, winner of the Branko Rakovic Prize given from the Faculty of Electrical Engineering Belgrade at 1992., gave very interesting talk about: **New Approach to the Design of Elliptical Filters** He presented his latest published and unpublished results from this field.

In 1994 the Chapter organized the following meetings:

1. The meeting of **Mobile Radio Communication Systems** in June.

Prof. George Paunovic, President of Yugoslavia IEEE Sections gave an interesting lecture that included historical overview of 150 years of telecommunications in Serbia and also review of the present mobile earth and satellite systems and services. There were present 67 people at that lecture.

2. The only lectures given by lecturer from abroad since 1991. were lectures entitled:

i) **Some Recent Developments in the Transmission-Line Modelling (TLM) Method**

ii) **The Application of TLM to Electromagnetic Compatibility Problems**

The lectures were given on September 19, 1994. at Faculty for Electronics Nis.

Prof. Christos Christopoulos, The University of Nottingham, Department of Electrical and Electronic Engineering, England, who works in electromagnetic compatibility, electromagnetics and transmission line modelling.

I would like to point out that our meetings are very well attended. We always have at least 30 people present. Some of them come from other cities, because we invite people well in advance, send them content of the lecture as well as biography of the lecturer.

At the AdCom meeting which was held in October this year, we decided to announce the best lecture delivered from 1989, when Yugoslav IEEE MTT-S Chapter was established, until the end of 1994. The winner will receive the certificate of recognition and the golden coin. The YU MTT Informer should be also issued in order to summarize what we have been doing during the period 1989-1994.

The time was very short to prepare everything in a proper way, so the Organizing committee makes joke that AdCom works in frequency domain and the Organizing committee should make the inverse Fourier transform all this time in order to catch up with the plan on time.