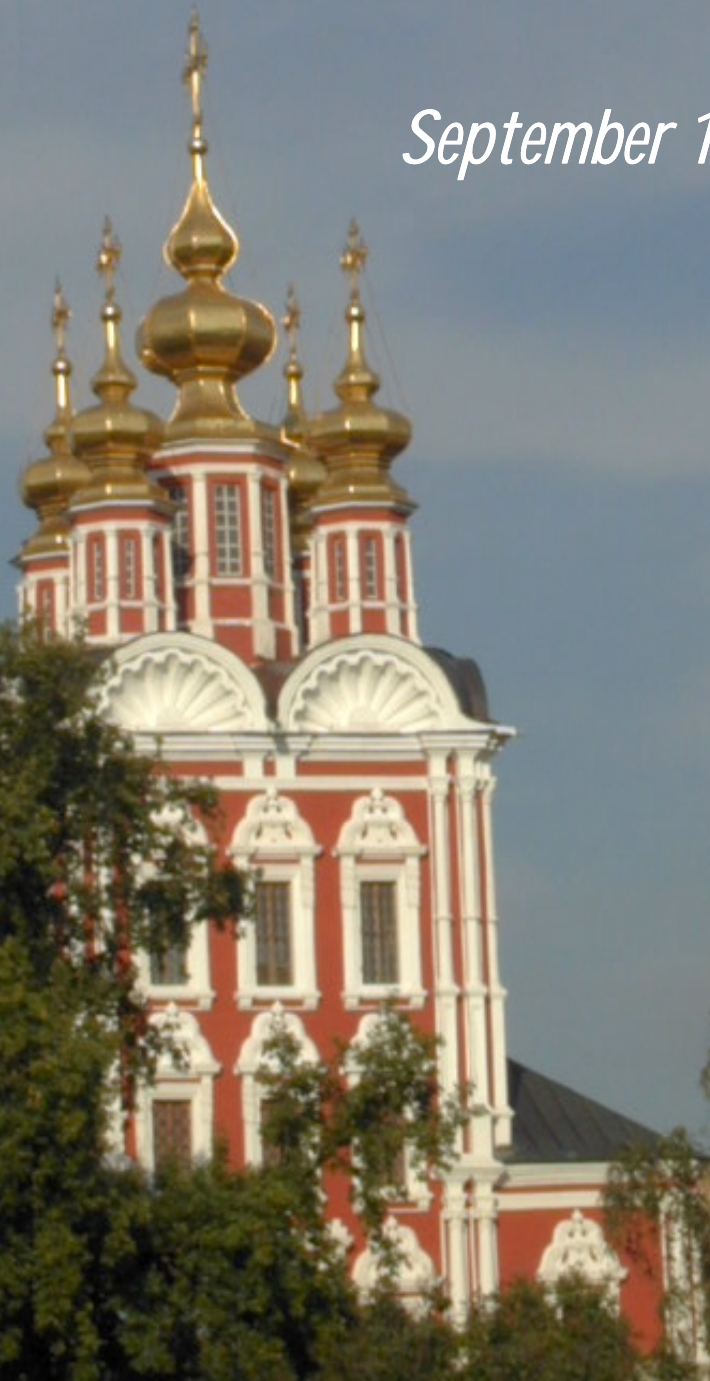


*Trip Summary  
Visit to Moscow,  
Russia*

*September 17-22, 2000*



Dr. Ronald Merrell, Mr. Charles Doarn, Mr. Brett Harnett traveled to Moscow, Russia, March, September 17-22. Dr. Vladimir Lavrentyev had arrived in Moscow earlier to coordinate the schedule. This visit was planned as a follow up to Dr. Merrell's previous visit in May. The main objectives of this visit were: 1) To give three lectures for MSUMD students; 2) Conduct four teaching surgery cases; 3) For Dr. Merrell's talk at Moscow Surgery Society Session; 4) To sign the Memorandum of Understanding between MITAC and Department of Surgery of MSUMD; 5) To finalize the technical and financial issues regarding the provision of the proposed ISDN line for the Hospital of Ministry for Railroads; and 6) To meeting with other MITAC partners to explore new directions of collaboration.



On Monday, September 18, 2000,

Dr. Merrell, Mr. Doarn, Mr. Harnett and Dr. Lavrentyev had brief meeting with Dr. Maslov – the Head of Hospital of Ministry of Railroad. Dr. Maslov wished Dr. Merrell and MITAC team welcome to his hospital and thanked Dr. Merrell for his interest in collaboration. Dr. Merrell also expressed his gratitude for hospitality and cooperation with MITAC and the Department of Surgery and New Technologies of MSUMD.

After this meeting Dr. Merrell participated in Daily Morning General Surgery Conference at the hospital. Dr. Merrell, Mr. Doarn, Mr. Harnett and Dr. Lavrentyev were introduced to physicians, faculty and postgraduate students. Prof. Eric Prazdnikov introduced Dr. Merrell to the heads of Surgery Departments. Dr. Merrell briefly spoke about MITAC and its activities in Telemedicine, Medical Informatics and Distance Learning and greeted physicians and students.

Dr. Merrell, Dr. Prazdnikov and Dr. Tolstykh visited endocrine patients chosen for surgeries. Mr. Doarn, Mr. Harnett and Dr. Lavrentyev went for tour of hospital, O.R. and computer class to explore hospital network, to evaluate equipment and technical issues regarding the ISDN connection and future collaboration in Distance Learning. It was determined that the infrastructure was sufficient to begin collaboration in Distance Education with the installation of the ISDN line.



On Tuesday, September 19, 2000,

Dr. Merrell performed one endocrine surgery and one laparoscopy surgery at the Railroad Hospital, Dr. Lavrentyev assisted him. Also he had discussion on his lecture with students on a lecture that had been previously provided to Dr. Prazdnikov. Approximately 50

individuals, mostly 4th year students expressed interest both in content of the lecture and in opportunity of international interaction.



Mr. Doarn, Mr. Harnett accompanied Dr. Oleg Orlov on a visit to the Clinical Hospital of the Medical Department of the Ministry of the Interior. A tour of the NASA telemedicine studio was conducted. Discussions were focused on how the studio equipment could be used. Dr. Orlov provided Mr. Doarn with two videotapes produced by the SBC using the equipment. Mr. Doarn requested a complete list of the studio's activities.

In the afternoon Dr. Merrell, Mr. Doarn, Mr. Harnett and Dr. Lavrentyev visited the MSUMD main office and met with its leaders. The principal participants from MSUMD



were Dr. Sokolov, Dr. Yushuk, Dr. Prazdnikov, Dr. Salmanov, and Dr. Mayev. Dr. Sokolov expressed his happiness that MITAC's collaboration with MSUMD is developing and notes that international collaboration in medical education is very important for all students and teachers. He stressed that Dr. Prazdnikov, was the right person for this type of collaboration.

Dr. Merrell thanked Dr. Sokolov for his hospitality and expressed his satisfaction of the beginning of the new phase of collaboration in Distance Education and said that he was looking forward to work with Dr. Loutsevich and Dr. Prazdnikov and their Department. Dr. Merrell also invited Dr. Sokolov to visit with him in Richmond.

On Wednesday, September 20, 2000,

Dr. Merrell visited with the patients that he operated on September 19 and performed two additional surgeries (one endocrine, one laparoscopy). He also gave a lecture to the MSUMD students. Again about 50 students, many teachers and faculty were present. This lecture was taped by Mr. Harnett.

In the morning, Mr. Doarn and Mr. Harnett visited the Space Biomedical Center for Training and Research on the campus of Moscow State University. Tours of the SBC were provided and a discussion focused on the TOLD contract; manuscript preparation; a demonstration and discussion on the 'beeper-size' ECG device (which is now a commercial product); and a demonstration



on a unique technology for using IR for transmitting electrical signals in a room. In addition, Mr. Doarn and Mr. Harnett participated in a videoconference with a medical site in Nizhny Novgorod. SBC has established a telemedicine relationship with the medical center there.

Dr. Merrell, Mr. Doarn, Mr. Harnett and Dr. Lavrentyev visited with Dr. Podoltsev and his colleagues at the ZIL Hospital. Dr. Podoltsev introduced the head of Department of Eye Disease of Patrice Lumumba University who indicated interest in collaboration with MCV Physicians. Dr. Podoltsev interested very much in Telemedicine consultations of patients and x-ray images in Cardiology. He also talked about International Telemedicine Project in Africa, which looks very interesting for him, because many physicians in Africa were trained in Russia.

Dr. Merrell reminded that he already suggested to begin the Teleconsultations using TOLD site with physicians at MCV. Both Dr. Merrell and Dr. Podoltsev agreed to collaborate in following directions:



- 1) Continue to develop collaboration in Medical education and Distance learning.
- 2) Review and consulting of Angiography's images and Cardiovascular cases by MCV physicians
- 3) Collaboration and support of physicians in Africa

On Thursday, September 21, 2000,  
Dr. Merrell went to NIIMASH for a NASA meeting. Mr. Doarn completed the preparation of the MOU. Mr. Doarn,

Mr. Harnett and Dr. Lavrentyev visited with Dr. Ovcharov at the Railroad Hospital to make all of the final edits to the MOU.

In the afternoon, Dr. Merrell, Mr. Doarn and Dr. Lavrentyev had a short meeting with Dr. Platonenko, who gave Dr. Merrell business plan of a Telemedicine project and of a company, *Med1.ru*

Dr. Merrell, Mr. Doarn, Mr. Harnett, Dr. Lavrentyev and Mr. Natenzon visited the Ministry of the Russian Federation for Communications and Informatization to meet with Dr. Yuri Grin, Director General of Department for International Cooperation of this Ministry and Mr. Yuri Fontanov, Deputy Director of the same department. Additional participants in the meeting included Dr. Radik Elchian and Mr. Ivan Emelin from the Medical Center of Russian Federation President's Management Department General Research Computer Center. A brief discussion was conducted on telemedicine, medical informatics and distance learning. Dr. Merrell provided a letter of invitation to Mr.

Reiman, Minister of Communications and Information to visit with he and MITAC during Mr. Reiman's upcoming visit to Washington, DC in October.



In the evening, Dr. Merrell had the unique opportunity to give a talk to the Moscow Surgery Society Session, located at Vishnevskogo Institute. He was the first foreign surgeon, who participated in this regularly Session since 1917. The topic of presentation was: "Remote Monitoring and Management of Surgical Procedures". Many famous Moscow surgeons, professors and teachers

were present. Dr. Loutsevich, the Head of Moscow Surgery Society presented Certificates to Dr. Merrell, Mr. Doarn, Mr. Harnett and Dr. Lavrentyev for their role in Distance Medical Education.



At the conclusion of these presentations, the entire group visited a Russian restaurant for dinner and discussion. Dr. Merrell, Mr. Doarn, Mr. Harnett, and Dr. Lavrentyev met with Dr. Loutsevich, the Vice President of MSUMD, Head of Department of Surgery Diseases and New Technologies in Surgery, Drs. Prazdnikov, Tolstykh, Ovcharov and Rozumhy participated in this meeting. The topic of discussion was focused on the best ways to implement Distance Learning. Dr. Merrell suggested separating students on three experimental groups who will get lectures by three different ways: on CD, from MITAC's web site and on-line real time lectures. At the conclusion of this there would be an examination and evaluation.

Dr. Merrell and Dr. Loutsevich signed the Memorandum of Understanding between MITAC and MSUMD, which included following areas of collaboration:

- 1) Share knowledge in medical disciplines of mutual interest
- 2) To evaluate and validate the most effective process for distance learning in surgery
- 3) Jointly publish findings in peer-reviewed journals
- 4) MITAC provides ISDN connection and Internet access to the Department of Surgery of MSUMD located at Railway Hospital # 4



On Friday, September 22,

Dr. Merrell, Mr. Doarn and Dr. Lavrentyev visited TANA and had a meeting with Mr. Natenzon, Mr. Tarnapolsky and Mr. Chernov. It was a short meeting. Mr. Natenzon demonstrated TANA's projects and directions of business and asked for collaboration and support in following:

- 1) In Russian Telemedicine Journal establishment, collaboration with American Telemedicine Journal
- 2) Collaboration with American Telemedicine Association
- 3) Russian Telemedicine Web site establishment
- 4) Establishment of Russian Telemedicine Association
- 5) Telemedicine consultations (Telemedicine Agency)
- 6) Telemedicine project in Serbia
- 7) Common grants

Dr. Merrell thanked Mr. Natenzon for his invitation and hospitality and generally agreed to explore the ways of collaboration, with the exception of any projects in Serbia.

