WIPO/INV/MTY/02/9

ORIGINAL:Spanish









INSTITUTEOFTECHNOLOGYAND SUPERIORSTUDIESOFMONTERREY

INTERNATIONALWORKSH OPON MANAGEMENTANDCOMME RCIALIZATIONOFINVENTI ONS **ANDTECHNOLOGY**

organizedby theWorldIntellectualPropertyOrganization(WIPO)

incooperationwith theMexicanInstituteofIndustrialProperty(IMPI)

and

theInstituteofTechnologyandSuperiorStudiesofMonterrey(ITESM)

Monterrey(Mexico), April 17to 19,2002

EXPERIENCESACQUIREDANDLESSONSLEARNEDIN TECHNOLOGY MANAGEMENT

TECHNOLOGYMANAGEMENTINUNIVERSITIES CHALLENGES AND DILEMMAS

DocumentpreparedbyMrs.MarliElizabethRitterdosSantos,Director,Interactionand Technology Transfer Office (EITT), Federal University of Rio Grande del Sur (UFRGS),Porte Alegre, Brazil

INTRODUCTION

- Changesofscenarioduetotheintroductionofnew universityfunctions
- Traditional vocation- incorporation ofnew models
- Asageneralrule,researchersdonotagreetointerference intheirrelationswithanoutsidepartner
- Needforeffectiveinstitutionalmanagementmachineryto provideamorerapidresponse
- Reconcilingthesetwoforcesisachallengefortechnology managementinuniversities
- ThecaseoftheUFRGS

HANDLINGTHETRADITIONALANDTHE NEWINUNIVERSITYMANAGEMENT

- Linear model theonlyflowfrombasic research toindustrial innovation
- More complexforms incorporationofnew features in universityroutine
 - patenting
 - secrecy
 - licensingoftechnologyandpatents
- Lackofconsensus
- Cultureconflict
- Licensingoftechnologyandpatents

DILEMMAS

PUBLISHORPATENT?

- Precedenceofpublicationoverpatenting
 - reflectedinthecountry 'stechnologicalcapacity:
 - 1,2%ofscientificpublications
 - 27thplaceintermsofpatentfilingsintheUSA
- Lackofknowledgeoftheimportanceandeconomic valueofapatenttotheuniversity
- Lackofrecognitionofthepatentasanacademicproduct
- Highcostsinvolvedinthepatentingprocess

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DILEMMAS

DUBLICDOMAINV.SECRECY

- Secrecyperceivedasprivatizationofknowledge
- Inpublicuniversities-secrecyinR&Dcontractswith companies-opendoortoprivatization
- Needtofindwaysofreconcilingcontradictions

CHANGESINTHEMANAGEMENTOFKNOWLEDGE

- Emphasisongovernmentalsupportforindividualresearch projects
- Jurisdictionoverresources-formationofresearchgroupssectoralfunds
- Shiftingofdecision-makingtowithintheuniversity
- Needforanorganizationinchargeofresearch-institutional managementofprojects
- Changeinthemethodsoftransferringknowledge-company incubatorsandspin-offcompanies
- Professionalizationoftechnologyactivities

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ACTIONOFEITT/UFRGS

- LinkagetotheTechnologicalDevelopmentSecretariatofthe UniversityRectorate
- Missiontopromoteandfacilitateinteractionbetweenthe universityandtheproductionsector
 - FOCO: technologytransfermanagement-negotiationofcontracts withcompanies,managementoftechnologyconsultancy, intellectualpropertymanagement
- Strategyforsettingactivities in motion:gradual execution of tasks, withinlimitsoffeasibility
- · Basic principles: flexibility and interconnection
- Understanding of differences, for better performance of the assigned rule

ACTIONOFEITT/UFRGS

- Principalinstitutionalmachineryforthenegotiationof projectsandintellectualpropertyrights
- Inthatsituation, fundamental importance of recognizing the potential and peculiarities of the institution negotiated for, and at the same time of understanding its corporate logic
- Establishmentofinstitutionalguidelinesasanimportant requirementtobackupnegotiations-indicativeofthe degreeofprofessionalismwithwhichtheinstitutioner approachesthesubject

SCENARIOOFOPPORTUNITIESAND THREATSTOTECHNOLOGYMANAGEMENT STRUCTURES

- OPPORTUNITIES
- Professionaltechnologymanagement -onlydepartmentin theuniversitywithspecificresponsibilitiesinthatarea
 - windowofopportunity
- Intellectualpropertymanagement -becomingmoreand moreimportantinthenationalcontext
- Favorableenvironment -sectoralfundsandLawon TechnologicalInnovation

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SCENARIOOFOPPORTUNITYANDTHREATSTO TECHNOLOGYMANAGEMENTSTRUCTURES

- THREATS
- Contradictionsbetweentherolesoftechnologymanagement structures -lackofconsensusonuniversity-companylinkage
- Lackofinstitutionallegitimacy- difficultyinintensifyinglinkage operationswithcompanies
- Autonomyofteachingstaff -whileessential,itcouldmake managementdifficult,asresearchersgenerallydonotagreeto interferenceintheirrelationswithanoutsidepartner
- Limitedtimetodealwithrequests -prioritygiventoteachingand researchactivitieslimitsthetimeavailablefordealingwith outsiderequests

FINALCONSIDERATIONS

- Technologymanagementinuniversities- problemsofconfrontation betweentraditionalandnew
- Thegreatchallenge -strikingabalancesothattheresultsachievedby thenewmaystrengthenandregeneratetheuniversity 'straditional functions
- Despitetheprogress, stillalong way to govetto beachieved institutional legitimacy has
- Achievement of three stages of development that have totake place at thesame time
- Change oforganizationalculture
- Providedthatthenow-incipientlicensingactivitiesgrow,andthat universitiesreceivemoreincomefromroyalties,technology managementwill acquiremorevalue intheinsitutionalcontext

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