



ACM ENGINEERING & ENVIRONMENTAL SERVICES

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ST. MARYS, GEORGIA • HOUSTON, TEXAS

***NESHAP PRE-RENOVATION SUSPECT ASBESTOS
CONTAINING BUILDING MATERIAL SAMPLING
AND ANALYSIS REPORT***

FOR:

***City of South Miami
6130 Sunset Drive
South Miami, FL 33143***

LOCATION:

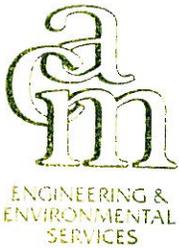
***Commercial Property
6130 Sunset Drive
South Miami, FL 33143***

PERFORMED BY:

***ACM Engineering & Environmental Services
1500 West Cypress Creek Road
Suite 413
Fort Lauderdale, Florida 33309***

DATE:

March 6, 2014



ACM ENGINEERING & ENVIRONMENTAL SERVICES

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NESHAP PRE-RENOVATION SUSPECT ASBESTOS CONTAINING BUILDING MATERIAL SAMPLING AND ANALYSIS REPORT

FOR:

**City of South Miami
6130 Sunset Drive
South Miami, FL 33143**

DATE: March 6, 2014

LOCATION: Commercial Property

ADDRESS: 6130 Sunset Drive

CITY, STATE, & ZIP: South Miami, FL 33143

PROJECT REVIEW:

ACM Engineering and Environmental Services, Inc. (ACM) provided a NESHAP Pre-Renovation Suspect Asbestos Containing Building Material (ACBM) survey at the commercial property located at 6130 Sunset Drive in South Miami, Florida. The site survey was performed by Nathan Allison on March 3, 2014, under the direction of Mr. Patrick T. Griffin P.E., State of Florida Licensed Asbestos Consultant #AX56.

The assessment/survey conformed to the current United States Environmental Protection agency (US EPA) and the Asbestos Hazardous Emergency Response Act (AHERA) regulations. The inspection, however, does not constitute a full AHERA inventory, since the client limited the scope of work to the materials that might be disturbed by the client during the renovation in the Purchasing Department. AHERA is the current standard with respect to training rules, assessment/survey procedures, and regulations that is enforced by Federal, State and local authorities.

Analysis of the bulk samples was performed by ACM Engineering & Environmental Services National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory (NVLAP Lab Code: 101977-0) by microscopists trained at the McCrone Research Institute. The bulk samples were analyzed pursuant to US EPA Interim Method for the Determination of Asbestos Minerals and Bulk Samples and in accordance with 40 CFR Part 763, Subpart F, Appendix A. The bulk sample analysis utilizes the Polarized light Microscopy (PLM) method for asbestos identification, which the current US EPA approved method for asbestos bulk sampling analysis.

P.T.G. 3/6/14

SECTION: EXECUTIVE SUMMARY

The NESHAP Pre-Renovation Suspect Asbestos Containing Building Material Survey performed at the commercial property located at 6130 Sunset Drive in South Miami, Florida, was intended to identify asbestos containing building materials (friable, non-friable, or both) that might be disturbed during the renovation of the space. A total of Thirteen (13) suspect asbestos bulk samples from nine (9) different homogeneous materials were collected and analyzed for asbestos content.

A. The following sampled building materials were identified as containing greater than one percent (1%) asbestos content:

- None

B. The following sampled building materials were identified to be non-detectable for asbestos content:

- 9"x9" Brown Floor Tile Adhesive
- 12"x12" Blue Vinyl Floor Tile
- Blue Floor Tile Adhesive
- Grey Cove Base
- Cove Base Adhesive
- Carpet Adhesive
- Black Cove Base
- Cove Base Adhesive

C. The following asbestos containing building materials are classified as Category I Non-Friable per EPA NESHAP:

- 9"x9" Brown Floor Tile under carpeting throughout area and in the vault room floor (FL14-024-01A-C)

P.T.S. 3/6/14

The following table summarizes the results of the asbestos assessment/survey. This table describes the location, condition, approximate quantity and the percent/type of asbestos within each bulk sample. (C= Chrysotile)

SAMPLE COLLECTION & ANALYSIS REVIEW

Material Description	Sample Number	General Location	Class - Condition	Approximate Quantity	Percent Asbestos
9"x9" Brown Vinyl Floor Tile	FL14-024-01A-C	Under Carpeting Throughout and in the Vault Room Floor	Non-Friable, Good Condition	~500 Sq. Ft.	4-10%C

Material Specific Recommendations:

The 500 square feet of asbestos containing 9"x 9" Floor Tiles under carpeting throughout area and in the vault room floor is in good condition and should be removed by a licensed Abatement Contractor prior to renovation because it has a high probability of becoming crumbled, pulverized, or reduced to powder during the scheduled renovation activities. EPA believes that most demolition activities will subject such asbestos containing material to the regulation. Whether asbestos floor tiles are subject to the asbestos NESHAP should be determined by the owner or operator and the Miami-Dade County Department of Environmental Resource Management Department on a case-by-case basis based on the demolition techniques to be used. Any renovation activities must follow EPA 350/1-92-103; the NESHAP Normal Practices Guide, which prohibits certain processes which include sawing, sanding, grinding, and intentional debris compaction, or waste reduction.

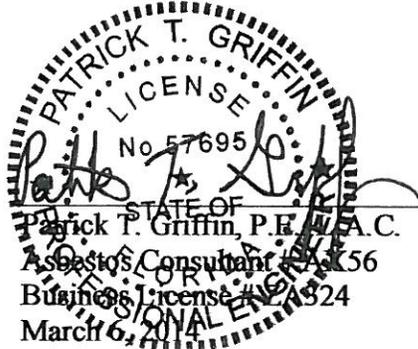
All removal, maintenance, or material disturbing actions should be performed in compliance with federal, state, and local asbestos regulations and requirements prior to the start of planned renovation activities. If not scheduled to be removed, the material should be labeled as an asbestos containing building material to provide occupant and visitor awareness. The material should be maintained in good condition and should not be subjected to certain processes, which include sawing, sanding, grinding, and intentional debris compaction, or waste reduction thus reducing the potential for unintentional material disturbance resulting in an asbestos fiber release episode

P.T.S. 3/6/14

SECTION: ASBESTOS SURVEY PARAMETERS

This asbestos surveys conformed to the following parameters:

- Limited to the conditions of the suspect Asbestos Containing Building Material (ACBM) at the time of the surveys.
- Does include limited recommendations for operations and maintenance procedures or air monitoring.
- Was developed based upon the visual observations of building materials in accessible areas and the laboratory results of bulk sample analysis for asbestos.
- Does not include warranties or guarantees.
- Provides estimated quantities for material identification purposes only.
- Does not include the determination of the presence or absence of any other suspected hazardous substances including but not limited to toxins, carcinogens, noise, and/or contaminants in soil, water, and air.
- Did require the consultant/assessor to enter any area or perform any procedures that may damage the property or present a danger to the consultant/assessor or others.
- Did require the consultant to move personal items, furniture, equipment, plant life, soil, or debris, which may have obstructed access or visibility.




Nathan T. Allison
EPA Approved Asbestos Inspector
March 6, 2014



ANALYSIS OF SUSPECT ASBESTOS CONTAINING BUILDING MATERIALS

METHOD:

All analyses and quantifications are performed in accordance with the U.S. Environmental Protection Agency's "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116 & EPA/600/M4-82/020: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples." ACM Engineering & Environmental Services is accredited by the National Voluntary Accreditation Program (NVLAP) for the scope of accreditation under NVLAP code 101977-0. These methods utilize stereoscopic examination of bulk samples, as well as utilizing the polarized light microscope (PLM). To determine the refractive index, the central stop dispersion staining method is used, as well as matching with refractive index oil and using light matching the sodium D line wavelength. Identification of non-asbestos species is less rigorous, as they are of secondary interest.

Gross samples are examined under a 10X or 20X stereoscope where homogeneity (need for sub-samples), texture and /or any other distinguishing characteristics are determined. Sub-samples are prepared if needed. Any fibrous material is mounted in high dispersion oil for further microscope examination utilizing PLM. Any possible asbestos fibers are analyzed for morphology, color and pleochroism, index of refraction parallel and perpendicular to elongation, birefringence, extinction characteristic and sign of elongation, and any other distinguishing characteristics observed.

The percentage of asbestos and other fibrous materials are then determined according to sample area coverage and thickness. The limit of qualification is one percent (1%). The above is recorded on the laboratory analysis sheet and maintained for three years. The error involved for reported percentages of fibrous is 100% error for 1% to 5%, 50% error for 5% to 20%, and 25% error for 20% to 100%. All percentages will be reported in a range indicating error or a single value, in which case the above error should be applied. When the value 1% or greater is reported this indicates asbestos is present in the sample.

THE REPORT:

The attached report quantifies the fibrous materials found in each sample submitted for analysis. A complete fibrous analysis of samples is given for each sample followed by a breakdown analysis of any sub-samples for heterogeneous material.

- *The first column* is the client sample number identification.
- *The second column* is the laboratory sample number. The laboratory number for the overall sample analysis is a digit number. The laboratory number followed by a letter designation (A,B,C, etc.) indicates a sub-sample analysis.
- *The third column* is the sample identification, which indicates whether the sample is homogeneous or heterogeneous, the color of the sample, and the physical description (cementitious, fibrous, cloth, etc.)
- *The fourth column* indicates the types and percentages of asbestos identified if any.
- *The fifth column* indicates the types and percentages of cellulose (CELL) non-asbestos identified.
- *The sixth column* indicates the types and percentages of non-fibrous, non-asbestos material (NON -FIB NON-ACBM) identified.
- *The seventh column* indicates the types and percentages of fibrous non-asbestos material (FIB NON ACBM) in the sample or sub-sample.

SAMPLE RETENTION:

Samples will be retained for 6 months unless otherwise instructed. After this period, the sample(s) will be disposed of appropriately. Upon written request, the samples will be returned by mail or delivery for a nominal fee to cover postage and handling. There would be no charge for samples picked-up at ACM Engineering & Environmental Services.

DISCUSSION AND RECOMMENDATIONS:

In order to reduce the risk of introducing asbestos fibers into the air, care should be taken not to disturb the asbestos containing building materials. If renovation, demolition or other activities might disturb known asbestos containing building materials, a reputable asbestos consultant should be contacted to help effectively design and implement an asbestos management program.

COMPONENTS DESCRIPTION:

ASBESTOS MATERIALS

NON-ASBESTOS MATERIALS

A = Amosite
 AC = Actinolite
 AN = Anthophyllite
 C = Chrysotile
 CR = Crocidolite
 T = Tremolite
 --- = No Asbestos Detected

CF = Ceramic Fibers N = Nylon
 CO = Cotton O = Other
 G = Fibrous Glass S = Synthetics
 H = Hair V = Vermiculite
 M = Mineral Wool

NOTE: ACM Engineering & Environmental Services does not deviate from the test method described in this report. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items above. This report must not be reproduced, except in full, without the written consent of ACM Engineering & Environmental Services.

**ACM ENGINEERING & ENVIRONMENTAL SERVICES**

WWW.ACMENV.COM

26598 U.S. 20 WEST, SOUTH BEND, IN 46628

P: (574)234-8435 F: (574)234-6800

CLIENT: City of South Miami
6130 Sunset Drive
South Miami, FL 33143

ANALYSIS METHODS: EPA/600/R-93-116 &
EPA/600/M4-82-020

NVLAP LAB ID #: 101977-0

MATRIX: Bulk

LOCATION: Commercial Property
6130 Sunset Drive
South Miami, FL 33143

Sample Date: 03/03/14

Analysis Date: 03/04/14

ACM PROJECT #: FL14-024/21841

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE IDENTIFICATION	ASBEST	CELL	NON FIB NON ACBM	FIB NON ACBM
FL14-024-01A	1401750	TAN GRAINY MATERIAL	4% C	---	96%	---
FL14-024-01B	1401751	TAN GRAINY MATERIAL	5% C	---	95%	---
FL14-024-01C	1401752	TAN GRAINY MATERIAL	10% C	---	90%	---
FL14-024-02A	1401753	BLACK STICKY MATERIAL	---	---	100%	---
FL14-024-02B	1401754	BLACK STICKY MATERIAL	---	---	100%	---
FL14-024-02C	1401755	BLACK STICKY MATERIAL	---	---	100%	---
FL14-024-03	1401756	BLUE GRAINY MATERIAL	---	---	100%	---
FL14-024-04	1401757	TAN GRAINY MATERIAL	---	---	100%	---
FL14-024-05	1401758	GRAY SOLID MATERIAL	---	---	100%	---
FL14-024-06	1401759	TAN STICKY MATERIAL	---	---	100%	---
FL14-024-07	1401760	TAN STICKY MATERIAL	---	---	100%	---
FL14-024-08	1401761	BLACK SOLID MATERIAL	---	---	100%	---
FL14-024-09	1401762	TAN STICKY MATERIAL	---	---	100%	---

ACM RECOMMENDS POINT COUNTING ANALYSIS ON ALL BULK SAMPLES WITH LESS THAN 10% (<10%) ASBESTOS CONTENT.

Microscopist: 7/4 [Signature]Title: Project ManagerDate: 3/4/14

Revision 2 2/10/14

State of Florida

Board of Professional Engineers

Attests that

ACM Environmental, Inc.



is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2015

Audit No: 228201502383

Certificate of Authorization

CA Lic. No:
26389

State of Florida

Board of Professional Engineers

Attests that

Patrick T. Griffin, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

Audit No: 228201519153

P.E. Lic. No:

57695



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**ASBESTOS LICENSING UNIT
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783**

(850) 487-1395

ACM ENVIRONMENTAL INC
OWNER: PATRICK T. GRIFFIN
26598 US 20 WEST
SOUTH BEND IN 46628

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION**

ZA324

ISSUED: 09/15/2013

ASBESTOS BUSINESS ORGANIZATION
ACM ENVIRONMENTAL INC
OWNER: PATRICK T. GRIFFIN

IS LICENSED under the provisions of Ch.469 FS.
Expiration date : NOV 30, 2015 L1309150004932



The Department of State is leading the commemoration of Florida's 500th anniversary in 2013. For more information, please go to www.VivaFlorida.org.

DETACH HERE

**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT**

LICENSE NUMBER
ZA324



The ASBESTOS BUSINESS ORGANIZATION
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2015

ACM ENVIRONMENTAL INC
OWNER: PATRICK T. GRIFFIN
5404 HOOVER BLVD.
SUITE 9
TAMPA FL 33634



RICK SCOTT
GOVERNOR

ISSUED: 09/15/2013 SEQ # L1309150004932
DISPLAY AS REQUIRED BY LAW

KEN LAWSON
SECRETARY

State of Florida

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Audit No: 228201519153

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57695

ACM ENGINEERING & ENVIRONMENTAL
SERVICES INC.

certifies that

Nathan Allison

has successfully completed the

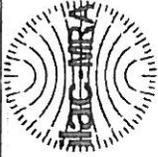
NIOSH 582 Equivalency Course

*for sampling and analysis of airborne fibers
conducted by ACM Engineering & Environmental Services, Inc.*

Presented this 13th day of January, 2011


Larry Malbone, Course Instructor

Course Dates: January 10-13, 2011



AIHA

Laboratory Accreditation
Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

ACM Engineering & Environmental Services, Inc.

26598 U.S. 20 West, South Bend, IN 46628

Laboratory ID: 102187

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- INDUSTRIAL HYGIENE
- ENVIRONMENTAL LEAD
- ENVIRONMENTAL MICROBIOLOGY
- FOOD

Accreditation Expires:

Accreditation Expires:

Accreditation Expires: 07/01/2013

Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Christine Powell

Christine Powell

Chairperson, Analytical Accreditation Board

Revision 10: 01/13/2011

Cheryl O. Morton

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 07/01/2011



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ACM Engineering & Environmental Services, Inc.

26598 US-20 West

South Bend, IN 46628

Mr. Larry Malone

Phone: 574-234-8435 Fax: 574-234-6800

E-Mail: staff@acmenv.com

URL: <http://www.acmenv.com>

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 101977-0

NVLAP Code Designation / Description

18/A01 EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

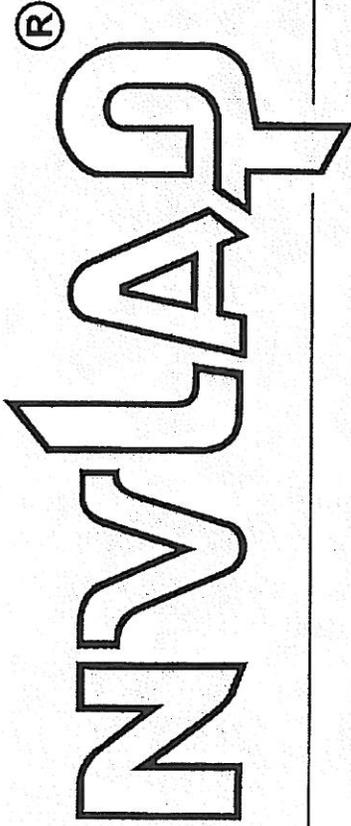
18/A03 EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

2013-07-01 through 2014-06-30

Effective dates

For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101977-0

ACM Engineering & Environmental Services, Inc.
South Bend, IN

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

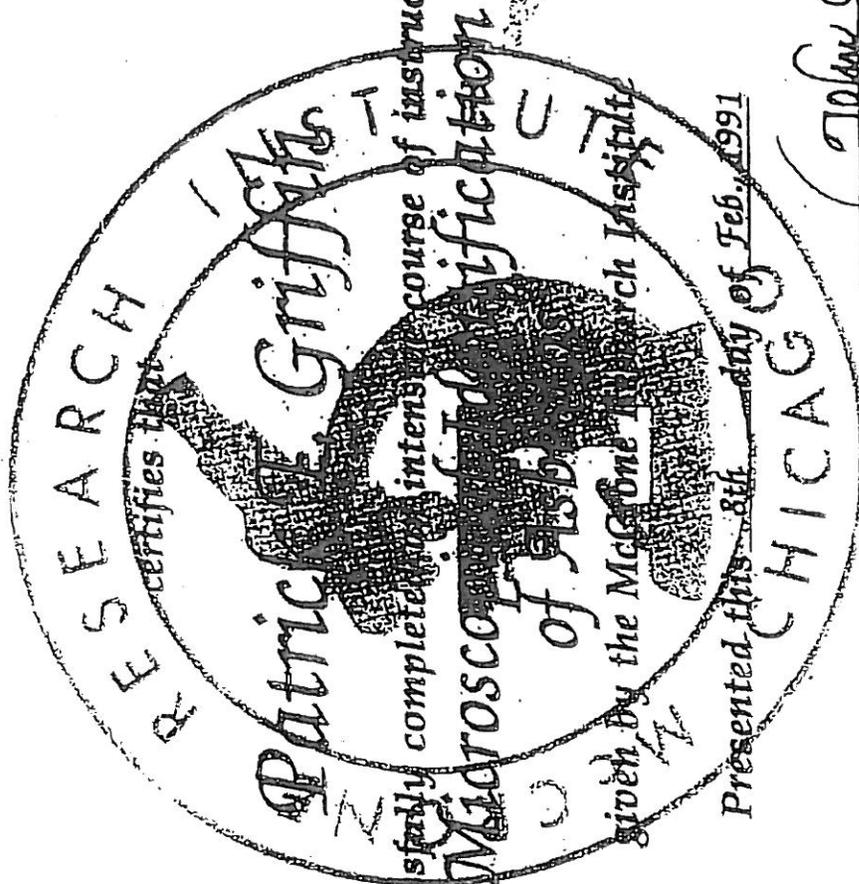
2013-07-01 through 2014-06-30

Effective dates



For the National Institute of Standards and Technology

McCCRONE RESEARCH INSTITUTE

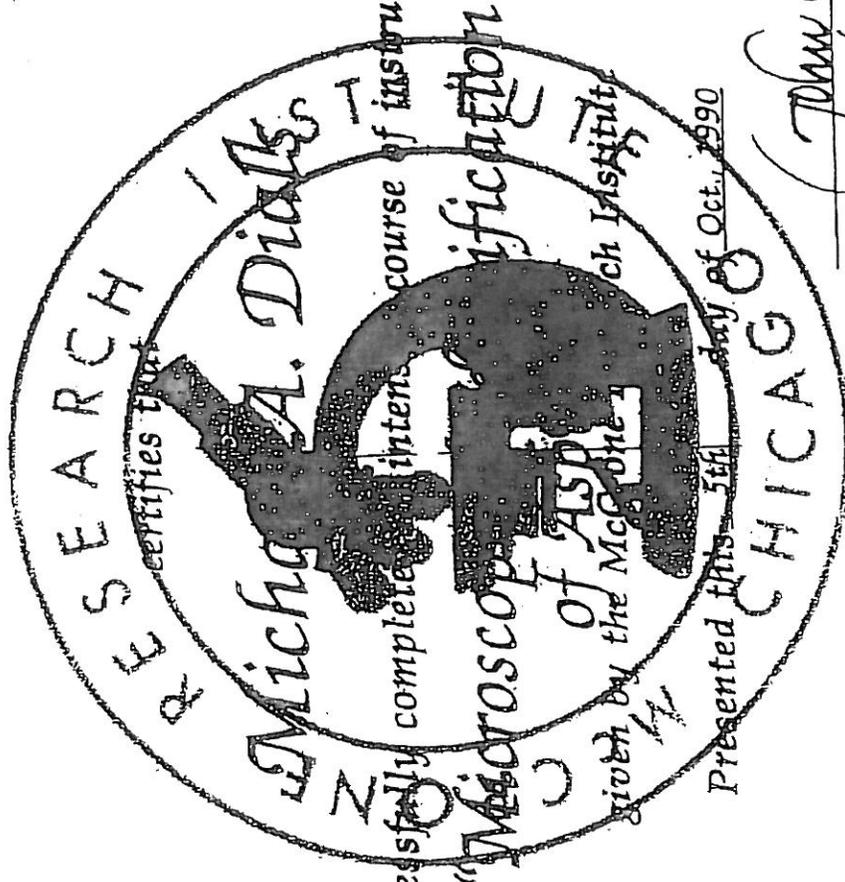


Course Date: 4-8 February, 1991
35 CEU's

John G. Kelly

Walter C. McCrone

MCCRONE RESEARCH INSTITUTE



has successfully completed an intensive course of instruction in

Microscopy of significance

given by the McCrone Research Institute

Presented this 5th day of Oct., 1990

John G. Kelly

Course Date: 1-5 Oct., 1990
3.5 CEU's

Walter C. McCrone

MCCRONE RESEARCH INSTITUTE



Course Date: August 21-25, 2006
3.5 CEU's

[Signature]
Ray J. Foyell